

**ANDREWS MANAGEMENT UNIT/STEENS MOUNTAIN COOPERATIVE
MANAGEMENT AND PROTECTION AREA
PROPOSED RESOURCE MANAGEMENT PLAN AND
FINAL ENVIRONMENTAL IMPACT STATEMENT**

**TABLE OF CONTENTS
VOLUME 2**

| | |
|--|------|
| ACRONYMS | iii |
| 5 CONSULTATION, COORDINATION AND LIST OF PREPARERS | 5-1 |
| 5.1 Introduction | 5-1 |
| 5.2 Public Participation | 5-1 |
| 5.2.1 Tribal Participation | 5-5 |
| 5.2.2 Agencies and Organizations Contacted or Consulted | 5-5 |
| 5.2.3 Agencies, Organizations, and Individuals on Mailing List | 5-5 |
| 5.3 List of Preparers | 5-7 |
| 5.3.1 Bureau of Land Management EIS Team | 5-7 |
| 5.3.2 Enviroscientists, Inc. RMP/EIS Team | 5-7 |
| 5.3.3 Cooperating Agencies | 5-8 |
| 6 GLOSSARY, BIBLIOGRAPHY, AND INDEX | 6-1 |
| 6.1 Glossary | 6-1 |
| 6.2 Bibliography | 6-12 |
| 6.3 Index | 6-29 |

TABLE

| | | |
|---------------------|---|-----|
| Table 5.1.1: | Summary of Key Public Involvement Events | 5-2 |
|---------------------|---|-----|

APPENDICES VOLUME 2

| | | |
|--------------------|--|-----|
| Appendix A: | Steens Mountain Cooperative Management and Protection Act of 2000 (P.L.106-399) | A-1 |
| Appendix B: | Subbasin Review Report - Andrews Management Unit/Steens Mountain Cooperative Management and Protection Area | B-1 |
| Appendix C: | Summary of Public Scoping Comments for the Andrews Management Unit/Steens Mountain Cooperative Management and Protection Area Postmarked or Delivered by April 15, 2002 | C-1 |
| Appendix D: | Legal Authorities, Planning Criteria, and Management Direction and Consistency with Other Plans | D-1 |
| Appendix E: | Consistency with Oregon Statewide Plans | E-1 |
| Appendix F: | Best Management Practices | F-1 |
| Appendix G: | Standards for Rangeland Health and Guidelines for Livestock Grazing Management for Public Lands in Oregon and Washington | G-1 |
| Appendix H: | Herbicides Approved for Use Against Noxious Weeds Listed in Vegetation Treatment on BLM Lands in Thirteen Western States EIS and ROD | H-1 |
| Appendix I: | Allotment Management Summaries | I-1 |
| Appendix J: | Land Tenure Adjustment Criteria and Legal Requirements | J-1 |
| Appendix K: | Areas of Critical Environmental Concern Descriptions | K-1 |
| Appendix L: | Common and Scientific Names for Plants and Animals Cited in the Document | L-1 |
| Appendix M: | Transportation Plan | M-1 |
| Appendix N: | Wild and Scenic Rivers Suitability Evaluations | N-1 |
| Appendix O: | Effects of Intensity and Season of Grazing | O-1 |
| Appendix P: | Wildlife Habitat Descriptions and Considerations | P-1 |
| Appendix Q: | Monitoring Plan for the Andrews Management Unit and the Steens Mountain Cooperative Management and Protection Area | Q-1 |
| Appendix R: | Cultural Resources - Site Specific Impacts, Site Condition and Management Actions | R-1 |
| Appendix S: | Final Plan Table of Data Needs/Status | S-1 |
| Appendix T: | Public Comments on the DRMP/DEIS and BLM Responses | T-1 |

LIST OF MAPS IN THE RMP/EIS VOLUME 2

- 1.1 Location of the Planning Area**
 - 1.1.1 Administered Lands**
 - 2.11.1 Visual Resource Management Classes within the Planning Area - Proposed RMP**
 - 2.13.1 Locatable Minerals Open Areas within the Planning Area - Proposed RMP**
 - 2.13.2 Mineral Leasing Categories within the Planning Area - Proposed RMP**
 - 2.13.3 Salable Minerals Open Areas within the Planning Area - Proposed RMP**
 - 2.14.1 Herd Areas and Herd Management Areas within the Planning Area - Proposed RMP**
 - 2.15.1 Allotment Boundaries within the Planning Area**
 - 2.17.1 Land Tenure Zone Boundaries within the Planning Area - Proposed RMP**
 - 2.17.2 Right-of-Way Corridors and Realty Use Authorization Avoidance/Exclusion Areas within the Planning Area - Proposed RMP**
 - 2.18.1 Transportation Plan within the CMPA - Alternative A**
 - 2.18.2 Transportation Plan within the Planning Area - Alternative A**
 - 2.18.3 Transportation Plan within the CMPA - Proposed RMP**
 - 2.19.1 Off-Highway Vehicle Designations within the Planning Area - Proposed RMP**
 - 2.20.1 Special Areas**
 - 2.21.1 Areas of Critical Environmental Concern/Research Natural Areas and Special Recreation Management Areas within the Planning Area - Proposed RMP**
 - 2.22.1 Wilderness Management Plan**
 - 2.24.1 Wild and Scenic Rivers Management Plan**
 - 3.6.1 Wildlife Habitat**
 - 3.13.1 Surface and Mineral Estate Ownership within the Planning Area**
 - 3.13.2 Locatable and Leasable Mineral Potential within the Planning Area**

**TABLE OF CONTENTS
VOLUME 3**

| | | |
|--------------------|--|------------|
| Appendix U: | Steens Mountain Wilderness and Wild and Scenic Rivers Management Plan | U-1 |
|--------------------|--|------------|

ACRONYMS

Reader note: Please refer to the list below for acronyms that may be used in this document.

| <u>ACRONYM</u> | <u>DEFINITION</u> |
|----------------|---|
| ACEC | Area of Critical Environmental Concern |
| AML | Appropriate Management Level |
| AMP | Allotment Management Plan |
| AMS | Analysis of the Management Situation |
| AMU | Andrews Management Unit / The Planning Area outside of the Steens Mountain CMPA |
| APHIS | Agricultural Plant and Animal Health Inspection Service |
| AUM | Animal Unit Month |
| BCB | Back Country Byway |
| BLM | Bureau of Land Management |
| BMPs | Best Management Practices |
| CAA | Clean Air Act |
| CCD | Census County Divisions |
| CD | Compact Disk |
| CEQ | Council on Environmental Quality |
| CFR | Code of Federal Regulations |
| CMPA | Cooperative Management and Protection Area |
| CWA | Clean Water Act |
| DEQ | Oregon Department of Environmental Quality |
| DEIS | Draft Environmental Impact Statement |
| DO | District Office |
| DRC | Desired Range of Conditions |
| DRMP | Draft Resource Management Plan |
| EA | Environmental Assessment |
| EIS | Environmental Impact Statement |
| EPA | Environmental Protection Agency |
| ERMA | Extensive Recreation Management Area |
| ESA | Endangered Species Act |
| ESI | Ecological Site Inventory |
| FAR | Functional At Risk |
| FEIS | Final Environmental Impact Statement |
| FFR | Federal Fenced Range |
| FLPMA | Federal Land Policy and Management Act |
| FMP | Fire Management Plan |
| GIS | Geographic Information System |
| HMA | Herd Management Area |
| HUC | Hydrologic Unit Code |
| ICBEMP | Interior Columbia Basin Ecosystem Management Project |
| ID | Interdisciplinary |
| Malheur NWR | Malheur National Wildlife Refuge |
| MFP | Management Framework Plan |
| MOA | Memorandum of Agreement |
| MOU | Memorandum of Understanding |
| MRDG | Minimum Requirement Decision Guide |
| NAAQS | National Ambient Air Quality Standards |
| NEA | Northwest Economic Associates |
| NEPA | National Environmental Policy Act |
| NSO | No surface occupancy |
| ODA | Oregon Department of Agriculture |
| ODF | Oregon Department of Forestry |
| ODFW | Oregon Department of Fish and Wildlife |
| OHV | Off-highway vehicle |
| ONDA | Oregon Natural Desert Association |
| ONHP | Oregon Natural Heritage Program |
| ORS | Oregon Revised Statute |
| ORV | Outstandingly Remarkable Value |

| | |
|---------|--|
| OWRD | Oregon Water Resources Department |
| PFC | Proper functioning condition |
| PILT | Payments In Lieu of Taxes |
| PL | Public Law |
| PM | Particulate Matter |
| PNC | Potential Natural Community |
| PP&L | Pacific Power and Light |
| PRIA | Public Rangelands Improvement Act of 1978 |
| PRMP | Proposed Resource Management Plan |
| R&PP | Recreation & Public Purpose |
| RA | Resource Area |
| RAC | Southeast Oregon Resource Advisory Council |
| RMIS | Recreation Management Information System |
| RMP | Resource Management Plan |
| RNA | Research Natural Area |
| ROD | Record of Decision |
| ROW | right-of-way |
| RTR | Redband Trout Reserve |
| S&Gs | Standards for Rangeland Health and Guidelines for Livestock Grazing Management for Public Lands in Oregon and Washington |
| SBR | subbasin review |
| SEORMP | Southeastern Oregon Resource Management Plan |
| SIP | State Implementation Plan |
| SMAC | Steens Mountain Advisory Council |
| SRMA | Special Recreation Management Area |
| SRP | Special Recreation Permit |
| T&E | Threatened and Endangered |
| TMDL | Total Maximum Daily Load |
| TNC | The Nature Conservancy |
| TNR | Temporary Nonrenewable |
| TP | Transportation Plan |
| USDA | United States Department of Agriculture |
| USDI | United States Department of the Interior |
| USFS | United States Forest Service |
| USFWS | United States Fish and Wildlife Service |
| USGS | United States Geological Survey |
| VRM | Visual Resource Management |
| WIS | Wilderness Information Specialist |
| WJMA | Wildlands Juniper Management Area |
| WQMP | Water Quality Management Plan |
| WQRP | Water Quality Restoration Plan |
| WSA IMP | Interim Management Policy for Lands Under Wilderness Review |
| WSA | Wilderness Study Area |
| WSR | Wild and Scenic River |
| WUI | Wildland urban interface |
| ybp | years before present |

5 CONSULTATION, COORDINATION AND LIST OF PREPARERS

5.1 Introduction

This Proposed RMP/FEIS was prepared by an ID Team of resource specialists from the Burns DO. Preparation of the SEORMP was initiated by the Vale and Burns Districts of the BLM, which initially included the Andrews RA. However, as a result of the Steens Act, the Burns District deemed it appropriate to separate the Andrews RA from the SEORMP and develop a separate plan in order to address changes in land management resulting from mandates of the Steens Act. The planning process began in early 2001 with the writing of the Preparation Plan. A consulting firm was hired in September 2001 to assist the BLM in the RMP/EIS process. Training of the ID Team occurred in February 2002.

5.2 Public Participation

The official start of the preparation of the RMP/EIS was initiated with the publishing of a “Notice of Intent” to prepare an RMP/EIS in the *Federal Register* on December 6, 2001. This notice also included an invitation to the public to suggest issues to be addressed in the RMP and to provide comments concerning the management of public lands. In addition, 1,220 scoping packets providing information about the planning process, outlining the planning schedule, and requesting comments were mailed to individuals, organizations, and agencies. Additional copies of the scoping brochure were made available at the four scoping meetings. News releases and requests for publication or announcement were mailed to 19 media groups including the Burns Times Herald, The Bulletin, The Oregonian, and KZZR Radio. BLM representatives attended meetings with Harney County to inform them of the preparation of the RMP/EIS and to encourage them to make comments, request information, and generally be involved in the process. The same information was distributed to the Burns Paiute Tribal Government. The Notice of Intent, news releases, and other mailings identified the beginning of the EIS scoping period and the location, date, and time of the public scoping meetings. The comment period ran from February through March 2002.

A SBR was conducted prior to completing the AMS or the public scoping. The SBR was a multi-agency collaborative effort to “step down” to the local level the findings and assessments of the ICBEMP. The ICBEMP was established in 1994 to develop and then adopt a scientifically sound ecosystem-based strategy for managing all USFS or BLM administered lands within the interior Columbia Basin. In other words, did the findings from the ICBEMP have any meaning to the planning process? The SBR group determined that many of them did, and these were incorporated into the issues addressed in this plan (Appendix B).

The AMS Summary was prepared after the SBR and mailed to members of the public, local and tribal governments, other federal agencies, and state agencies. It contained a description of the preliminary issues, alternatives, and planning criteria, as well as the resource area profile, existing management situation, and management opportunities. A followup newsletter outlining the primary comments was then mailed to 257 individuals in July 2002. An additional 143 copies of the AMS Summary were sent to interested individuals and organizations by request. The full version of the AMS was published and made available to the public in July 2002.

The public scoping meetings were held in the following cities on the dates listed and with the stated number of attendees.

| | | |
|--------------------|-------------------|-------------|
| Burns, Oregon | February 27, 2002 | 15 attended |
| Frenchglen, Oregon | March 4, 2002 | 17 attended |
| Bend, Oregon | March 6, 2002 | 55 attended |
| Portland, Oregon | March 7, 2002 | 23 attended |

As a result of the public scoping meetings, a total of 2,313 scoping letters were received. These included 1,844 letters comprised of three different form letters and 469 letters which included versions of the form letters with supplemental comments added. Each comment was summarized and included in a comment table, which is available for public review at the BLM Burns DO during normal business hours. A total of 3,601 comments were identified, and were sorted into 23 categories. A memorandum and table summarizing the comments received are included in Appendix C. These comments were incorporated into the alternatives and the analysis of this PRMP/FEIS. In addition to public scoping meetings, a number of meetings were conducted with collaborating agencies and other interested parties.

On October 3, 2003, the EPA’s Notice of Availability of the DRMP/DEIS was published in the *Federal Register* which initiated a 90-day comment period. A news release was sent to media groups including the Burns Times Herald, The Bulletin, The Oregonian, and KZZR Radio announcing availability of the DRMP/DEIS. Approximately 307 hard copies of the DRMP/DEIS and 80 compact discs were sent to individuals, agencies, and organizations. An RMP newsletter was also distributed to about 538 names on the mailing list announcing the availability of the DRMP/DEIS as well as announcing the public comment period and meeting dates. The DRMP/DEIS was also made available on the Burns

website. During the 90-day public comment period, four public meetings were held in the following cities on the dates listed and with the stated number of attendees.

| | | |
|---------------------------|-------------------------|--------------------|
| <u>Portland, Oregon</u> | <u>October 27, 2003</u> | <u>49 attended</u> |
| <u>Bend, Oregon</u> | <u>October 28, 2003</u> | <u>38 attended</u> |
| <u>Burns, Oregon</u> | <u>October 29, 2003</u> | <u>6 attended</u> |
| <u>Frenchglen, Oregon</u> | <u>October 30, 2003</u> | <u>10 attended</u> |

The BLM received approximately 5,563 public comment letters on the DRMP/DEIS a majority of which were form letter communications. Approximately 923 letters were individualized letters and 84 letters contained substantive comments which are addressed in Volume 2 of the Proposed RMP/FEIS. Comments made during the SEORMP process that were specific to the Andrews RA were also considered. The comment period ended January 5, 2004. The BLM continued to involve the RAC, the SMAC, and cooperating agencies throughout the process. Table 5.1.1 summarizes the key public involvement events.

Table 5.1.1: Summary of Key Public Involvement Events

| Date | Event |
|-------------|---|
| 10/22/01 | SMAC meeting, Hines, Oregon. |
| 12/6/01 | Notice of Intent to prepare RMP published in <i>Federal Register</i> . |
| 12/17-18/02 | SMAC meeting, Hines, Oregon. |
| 1/8/02 | Mailed letter to Burns Paiute Tribe requesting time on the Tribal Council agenda to discuss the RMP and an MOU between BLM and Burns Paiute Tribe. |
| 4-25/02 | SMAC meeting, Hines, Oregon. |
| 2/02 | Scoping brochure mailed to approximately 1,220 individuals, organizations, and agencies. |
| 2/15/02 | Issued a press release announcing upcoming public scoping meetings. |
| 2/27/02 | Public Scoping Meeting, Burns, Oregon (15 attendees). |
| 2/28-3/1/02 | SMAC meeting, Hines, Oregon. |
| 3/4/02 | Public Scoping Meeting, Frenchglen, Oregon (17 attendees). |
| 3/6/02 | Public Scoping Meeting, Bend, Oregon (55 attendees). |
| 3/7/02 | Public Scoping Meeting, Bend, Oregon (23 attendees). |
| 4/3/02 | Met with Burns Paiute Tribal Council to discuss possibility of Burns Paiute Tribe becoming a cooperating agency and other planning related issues. |
| 4/4-5/02 | SMAC meeting, Hines, Oregon. |
| 5/13/02 | Meeting with cooperating agencies and BLM ID team. |
| 6/13-14/02 | SMAC meeting, Hines, Oregon. |
| 6/17/02 | Meeting with Malheur NWR, DEQ, Burns Paiute Tribe, Harney County, Burns City Manager, and BLM ID team. |
| 7/02/02 | RMP Newsletter mailed to the public and distributed to Hines City Hall, Burns City Hall, Harney County Courthouse, Narrows Store and RV Park, Princeton Post Office, Frenchglen Post Office, Denio Post Office, Fields Store, and Emigrant Creek Ranger District. |
| 7/1/02 | Meeting with Malheur NWR, DEQ, Burns Paiute Tribe, and BLM ID team. |

| Date | Event |
|----------------|---|
| 7/8/02 | E-mail message to cooperating agencies regarding timeframes, upcoming meeting, and newsletter. |
| 7/20/02 | Issued a press release announcing availability of an RMP Newsletter. |
| 7/25/02 | Provided cooperating agencies with management actions. |
| 7/29/02 | Meeting with Burns Paiute Tribe, Malheur NWR, USFWS Department of Ecological Services, Burns City Manager, and BLM ID team. |
| 8/14/02 | Provided core team meeting notes to cooperating agencies. |
| 8/15-16/02 | SMAC meeting, Frenchglen, Oregon. |
| 8/19/02 | Meeting with Malheur NWR, USFWS Department of Ecological Services, Burns City Manager, and BLM ID team. |
| 10/21-22/02 | SMAC meeting, Bend, Oregon. |
| 10/31/02 | Press Release issued announcing availability of the complete AMS. |
| 12/2-3/02 | SMAC meeting, Hines, Oregon. |
| 12/11/02 | Met with Hines City Manager, and discussed the RMP process and the possibility of the City becoming a cooperating agency. A copy of the AMS was also delivered. |
| 1/13/03 | Attended Hines City Council meeting to update them on RMP process and discuss possibility of the City becoming a cooperating agency. |
| 3-24/03 | SMAC meeting, Hines, Oregon. |
| 1/28/03 | Letters sent to permittees informing them of a WSA proposal and asking for assistance in identifying range improvements, trails, roads, and mining disturbance. |
| 2/26/03 | Mailed Chapters 1 and 3, and Chapter 2 Summary Table to SMAC and cooperating agencies for an internal review. Copies were hand delivered to City of Hines, City of Burns, Harney County, and ODFW. |
| 3/3-4/03 | SMAC meeting, Hines, Oregon. |
| <u>3/21/03</u> | <u>Press release issued notifying the public of proposed publishing of the DRMP/DEIS, as well as the opportunity to comment during the 90-day comment period, and the upcoming SMAC meeting.</u> |
| 3/27/03 | Meeting with Harney County regarding management actions. |
| 4/2/03 | Meeting with Harney County and City of Burns regarding management actions. |
| 4/9-11/03 | SMAC meeting, Hines, Oregon. |
| 4/16/03 | Meeting with Harney County regarding management actions. |
| 4/21/03 | Letter to RAC notifying them the Preliminary DRMP/DEIS would be available the first week in May. |
| <u>4/23/03</u> | <u>Press release issued notifying the public of proposed publishing date of the DRMP/DEIS, as well as the opportunity to comment during the 90-day comment period, and the upcoming SMAC meeting.</u> |
| 4/23/03 | Conference call with State Office Staff. |
| 4/30/03 | Preliminary DRMP/DEIS mailed by contractor to the RAC, SMAC, cooperating agencies, Oregon State Office, and Burns DO. |

ANDREWS MANAGEMENT UNIT/STEENS MOUNTAIN COOPERATIVE MANAGEMENT AND PROTECTION AREA
PROPOSED RESOURCE MANAGEMENT PLAN AND FINAL ENVIRONMENTAL IMPACT STATEMENT

| Date | Event |
|-------------|--|
| 5/8-9/03 | SMAC meeting, Hines, Oregon. |
| 5/21/03 | <u>Press release issued notifying the public of proposed publishing date of the DRMP/DEIS, as well as the opportunity to comment during the 90-day comment period, and the upcoming SMAC meeting.</u> |
| 6/5-6/03 | SMAC meeting, Hines, Oregon. Comments were provided by City of Burns, Harney County, Community Response Team, and Chamber of Commerce regarding Social and Economic Values. |
| 6/17/03 | District staff met with Malheur NWR. |
| 6/23/03 | District staff met with the ODFW regarding RTR. |
| 7/18/03 | <u>Press release issued notifying the public of proposed publishing date of the DRMP/DEIS, as well as the opportunity to comment during the 90-day comment period, and the cancellation of the August SMAC meeting.</u> |
| 9/03 | <u>Newsletter mailed to public informing them of the RMP schedule, RMP format, and opportunities for public comment.</u> |
| 9/19/03 | <u>Notice of Availability for the DRMP/DEIS published in the <i>Federal Register</i>.</u> |
| 9/19/03 | <u>Press release issued announcing the availability of the DRMP/DEIS.</u> |
| 9/15-16/03 | <u>SMAC meeting, Bend, Oregon.</u> |
| 9/22/03 | <u>RAC meeting, Ka nee tah, Oregon.</u> |
| 10/3/03 | <u>EPA's Notice of Availability for the DRMP/DEIS published in the <i>Federal Register</i>.</u> |
| 10/21/03 | <u>Press release issued reminding the public of upcoming public meetings.</u> |
| 10/27/03 | <u>Public Meeting, Portland, OR (49 attendees).</u> |
| 10/28/03 | <u>Public Meeting, Bend, OR (38 attendees).</u> |
| 10/29/03 | <u>Public Meeting, Burns, OR (6 attendees).</u> |
| 10/30/03 | <u>Public Meeting, Frenchglen, OR (10 attendees).</u> |
| 11/17-18/03 | <u>SMAC meeting, Burns, Oregon.</u> |
| 12/8/04 | <u>RAC meeting, Burns, Oregon.</u> |
| 2/13/04 | <u>Draft responses to public comments were distributed to the SMAC along with a spreadsheet describing effects to the Proposed RMP/FEIS.</u> |
| 2/17-19/04 | <u>SMAC meeting, Burns, Oregon.</u> |
| 2/18/04 | <u>Draft responses to public comments were distributed to cooperating agencies, the RAC, and State Office personnel. Cooperating agencies were given the opportunity to meet individually with BLM to discuss changes.</u> |
| 2/19/04 | <u>Met with Burns Paiute Tribal SMAC member to ensure the Burns Paiute Tribe had the necessary information regarding the changes to the Proposed RMP/FEIS.</u> |
| 2/20/04 | <u>Met with Harney County to discuss proposed changes to the Proposed RMP/FEIS.</u> |
| 2/23/04 | <u>RAC meeting, Burns, Oregon.</u> |
| 2/24/04 | <u>Attended Hines City Council meeting to update them on the RMP process and allow for additional input.</u> |

| Date | Event |
|---------------|---|
| <u>3/2/04</u> | <u>Met with USFWS Ecological Services, and Malheur NWR, to discuss proposed changes to the Proposed RMP/FEIS.</u> |

5.2.1 Tribal Participation

Burns Paiute Tribal Council

5.2.2 Agencies and Organizations Contacted or Consulted

City of Hines
City of Burns
Harney County Chamber of Commerce
Harney County Court
BLM Lakeview District Office
Oregon Department of Environmental Quality
Oregon Department of Water Resources
Oregon Department of Fish and Wildlife
Southeast Oregon Resource Advisory Council
Steens Mountain Advisory Council
U.S. Fish and Wildlife Service, Ecological Services
U.S. Fish and Wildlife Service, Malheur National Wildlife Refuge
BLM Vale District Office

5.2.3 Agencies, Organizations, and Individuals on Mailing List

The BLM mailed the public scoping packet to approximately 1,220 agencies, organizations, and individuals. The "Summary of the Analysis of the Management Situation" was mailed to approximately 208 people and the complete AMS was mailed to approximately 64 people. Three hundred eighty-seven (387) copies of the DRMP/DEIS were mailed along with 538 newsletters announcing the availability of the DRMP/DEIS. The following is a list of the officials, tribal groups, agencies, and organizations to which a copy of this Proposed RMP/FEIS was sent. The list of individuals on the mailing list is not included.

Elected Officials

U.S. Senator Ron Wyden
U.S. Senator Gordon Smith
Congressman Greg Walden
Governor Ted Kulongoski
Harney County Judge Steve Grasty

Tribal Groups

Burns Paiute Tribal Council
Confederated Tribes of the Warm Springs Reservation
Fort McDermitt Tribal Council
Klamath Tribes

Agencies

U.S. Fish and Wildlife Service, Ecological Services, Central Oregon Field Office
U.S. Fish and Wildlife Service, Malheur National Wildlife Refuge
U.S. Fish and Wildlife Service, Oregon State Office
Oregon Department of Fish and Wildlife
U.S. Environmental Protection Agency
Oregon Department of Transportation
Department of Land Conservation and Development
Federal Energy Regulatory Commission

Fremont National Forest
Harney County Chamber of Commerce
Harney County Library
Harney County Soil and Water Conservation District
Harney County Planning Department
Malheur County Planning Department
National Landscape Conservation System
Oregon Department of Geology and Mineral Industries
Oregon Division of State Lands
Oregon State Parks Department
Oregon Natural Resources Council
Animal and Plant Health Inspection Service
U.S. Forest Service, Emigrant Ranger Station
U.S. Forest Service, Malheur National Forest
Eastern Oregon Agricultural Research Center
Natural Resources Conservation Service
Bonneville Power Administration
BLM - Coos Bay District Office
BLM - Lakeview District Office
BLM - Medford District Office
BLM - Oregon State Office
BLM - Prineville District Office
BLM - Salem District Office
BLM - Eugene District Office
BLM - Roseburg District Office
BLM - Spokane District Office
BLM - Vale District Office
Bureau of Reclamation

Organizations

American Alpine Club
Animal Protection Institute
Association of Oregon and California Counties
Central Washington University
Eastern Oregon Sportsmen Association
Evergreen State College
Frenchglen School Board
Frenchglen Community Club
The Fund for Animals, Inc.
Geyser Observation and Study Association
Harney Electric Cooperative
High Desert Outfitters
Hunters for Conservation
Izaak Walton League
National Wildlife Federation
The Nature Conservancy
Northwest Coalition for Alternative to Pesticides
Oregon Cattlemen's Association
Oregon Equestrian Trails
Oregon Farm Bureau
Oregon Guides and Packers
Oregon Grotto
Oregon Hunter's Association
Oregon Llamas
Oregon Natural Desert Association
Oregon State Snowmobile Association, Inc.
Pacific Rivers Council

Portland State University
 Sierra Club
 Steens Mountain Club
 University of Oregon Library
 Waterwatch
 Water for Life
 Western Lands Exchange Project
 WHOA
 Wild Wilderness
 Wilderness Society
 Wilderness Watch
 Wildlife Management Institute

5.3 List of Preparers

5.3.1 Bureau of Land Management RMP/EIS Team

| <u>Team Member</u> | <u>Resource</u> |
|---------------------|--|
| Gary Foulkes* | Project Lead, Environmental Justice, Air Quality, Socioeconomics |
| Rick Hall* | ACECs, Special Status Species - Flora, Rangelands, Grazing Management, Soils |
| Doug Linn | Biological Soil Crusts |
| Scott Thomas | Cultural, Paleontology, Native American Concerns |
| Lesley Richman | Noxious Weeds |
| Jeff Rose | Woodlands/WJMA, Fire Management |
| Carolyn Freeborn* | Management Representative, Grazing Management |
| Cam Swisher | Grazing Management |
| Dave Ward | Grazing Management |
| Bill Andersen | Grazing Management |
| Manny Berain | Grazing Management |
| Jon Collins* | Wild and Scenic Rivers |
| <u>Laura Graves</u> | <u>Wild and Scenic Rivers</u> |
| John Neeling* | Wilderness |
| Evelyn Treiman* | Recreation, OHVs, Visual Resources, Wilderness Study Areas, National Trails |
| Mark Sherbourne | Transportation |
| Skip Renschler | Utility/Communication Corridors, Cadastral/Land/Realty, Renewable Energy |
| Matt Obradovich* | Wildlife, Special Status Species - Fauna, Wetlands, Animal Damage Control, Wild Horses, Riparian Areas, Rangelands |
| Darren Brumback* | Fisheries, Redband Trout Reserve, Water Resources, Riparian Areas |
| Dean Bolstad | Wild Horses |
| <u>Tom Seley</u> | <u>Wild Horses</u> |
| Cindy Weston | Fisheries, Water Resources, Riparian Areas |
| Kelly Hazen* | Geographical Information System |
| Pam Keller | Geographical Information System |
| Rhonda Karges* | SMAC/Management Support |
| Terri Geisler | Minerals/Geology, Renewable Energy |

*Core Team Member

5.3.2 Enviroscientists, Inc. RMP/EIS Team

| <u>Team Member</u> | <u>Resource</u> |
|--------------------|--|
| Richard DeLong | Project Manager, Air Quality, Environmental Justice, Wilderness |
| Opal Adams | Assistant Project Manager, Energy and Minerals, Geology, Paleontology, Visual Resource Management |
| Jennifer Thies | Project Coordinator, Lands and Realty, Transportation and Roads, Off-Highway Vehicles, Social and Economic Values, Recreation, Wilderness Study Areas, ACECs |
| Adrian Juncosa | Grazing, Rangelands, Fire |
| Susan Fox | Wildlife, Wild Horses and Burros, Special Status Animal Species |

| | |
|-------------------|--|
| Matt Kiese | Fisheries, Special Status Fish Species, Redband Trout Reserve, Wild and Scenic Rivers, Water Resources |
| Joan Reynolds | Vegetation, Soils, Special Status Plant Species, Noxious Weeds, Riparian Areas/Wetlands |
| Dr. Robert Vierra | Cultural Resources, Native American Traditional Values |

5.3.3 Cooperating Agencies

U.S. Fish and Wildlife Service, Ecological Services
U.S. Fish and Wildlife Service, Malheur National Wildlife Refuge
Burns Paiute Tribe
Oregon Department of Environmental Quality
Oregon Department of Fish and Wildlife
Harney County
City of Burns
City of Hines

6 GLOSSARY, BIBLIOGRAPHY, AND INDEX

6.1 Glossary

A complete glossary of Transportation Management terms can be found in Appendix M.

A

Adaptive Management – A type of natural resource management in which decisions are made as part of an ongoing process. Adaptive management involves testing, monitoring, evaluation, and incorporating new knowledge into management approaches based on scientific findings and the needs of society. Results are used to modify management policy.

Advanced ecological status – A biotic community with a high similarity to a defined or perceived potential natural community (PNC) for an ecological site, usually late seral or PNC ecological status.

Allotment – A specific portion of public land allocated for livestock grazing, typically with identifiable or fenced boundaries and permitted for a specified number of livestock.

Allotment (grazing) – Area designated for the use of a certain number and kind of livestock for a prescribed period of time.

Allotment Management Plan (AMP) – A plan for managing livestock grazing on specified public land.

Analysis of the Management Situation (AMS) – Step 4 of the BLM's land use planning process. It is a comprehensive documentation of the present conditions of the resources, current management guidance, and opportunities for change.

Animal unit – One cow, one cow/calf pair, one horse, or five sheep.

Animal Unit Month (AUM) – The forage needed to support one cow, one cow/calf pair, one horse, or five sheep for one month. Approximately 800 pounds of forage.

Appropriate Management Level (AML) – An established population range that represents the number of animals that the designated HMA can sustain and that results in a thriving natural ecological balance with other uses and resources common to the area and avoids deterioration of the public range.

Area of Critical Environmental Concern (ACEC) – Area where special management attention is required to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources, or other natural systems or processes, or to protect humans from natural hazards.

Avoidance Areas – Areas with sensitive resource values where rights-of-way and land use authorizations would be strongly discouraged. Authorizations made in avoidance areas would have to be compatible with the purpose for which the area was designated and not be otherwise feasible outside the avoidance area.

B

Basalt – A dark, heavy, fine-grained silica-poor igneous rock composed largely of iron and magnesium minerals and calcium-rich plagioclase feldspars.

Basin (river) – In general, the area of land that drains water, sediment, and dissolved materials to a common point along a stream channel. River basins are composed of large river systems. In this EIS, the term refers to the equivalent of a third field hydrologic unit code, an area of about nine million acres, such as the Salmon River basin. It also is used to refer in general to the Interior Columbia River Basin.

Best Management Practices (BMPs) – A set of practices which, when applied during implementation of management actions, ensures that negative impacts to natural resources are minimized. BMPs are applied based on site specific evaluation and represent the most effective and practical means to achieve management goals for a given site.

Biological Soil Crust - Lichens, mosses, green algae, fungi, cyanobacteria, and bacteria growing on or just below the surface of soils.

Bureau of Land Management (BLM) – Government agency with the mandate to manage federal lands under its jurisdiction for multiple uses.

BLM assessment species – Plant and animal species on List 2 of the Oregon Natural Heritage Data Base, or those species on the Oregon List of Sensitive Wildlife Species (OAR 635-100-040) that are identified in BLM Instruction Memo OR-91-57 and are not included as federal candidate, state listed, or BLM sensitive species.

BLM sensitive species – Plant or animal species eligible for federal listed, federal candidate, state listed, or state candidate (plant) status, or on List 1 in the Oregon Natural Heritage Data Base, or approved for this category by the BLM State Director.

BLM tracking species – Plant and animal species on List 3 and 4 of the Oregon Natural Heritage Data Base, or those species on the Oregon List of Sensitive Wildlife Species (OAR 635-100-040) that are identified in BLM Instruction Memo OR-91-57 and are not included as federal candidate, state listed, BLM sensitive, or BLM assessment species.

C

Candidate Species – Any species included in the *Federal Register* Notice of Review that are being considered for listing as threatened or endangered by the US Fish and Wildlife Service.

Canopy – In a forest, the branches from the uppermost layer of trees; on rangeland, the vertical projection downward of the aerial portion of vegetation.

Cell - Unique ecosystem type used by the Natural Heritage Plan to inventory, classify, and evaluate natural areas. Cells contain one or more ecosystem elements (ie., plant communities or ecosystems such as Natural Heritage Resources or special species).

Classification – A process required by law for determining the suitability of public lands for certain types of disposal or lease under the public land laws or for retention in public ownership.

Climax vegetation – The stabilized plant community on a particular site. The plant cover reproduces itself and does not change as long as the environment remains the same.

Colluvium – Soil material, rock fragments, or both, moved by creep, slide, or local wash and deposited at the base of steep slopes.

Commodities – Goods and services produced by industries which include but are not limited to agriculture, livestock grazing, and mining.

Community – A group of species of plants and/or animals living and interacting at a particular time and place; a group of people residing in the same place and under the same government.

Consultation – (1) An active, affirmative process that (a) identifies issues and seeks input from appropriate American Indian governments, community groups, and individuals; and (b) considers their interests as a necessary and integral part of the BLM's and USFS's decision-making process. (2) The Federal Government has a legal obligation to consult with American Indian Tribes. This legal obligation is based in such laws as the Native American Graves Protection and Repatriation Act, the American Indian Religious Freedom Act, and numerous other Executive Orders and statutes. This legal responsibility is, through consultation, to consider Indian interests and account for those interests in the decision. (3) The term also refers to a requirement under Section 7 of the ESA for federal agencies to consult with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service with regard to federal actions that may affect listed threatened and endangered species or critical habitat.

Corridor (landscape) – Landscape elements that connect similar patches of habitat through an area with different characteristics. For example, streamside vegetation may create a corridor of willows and hardwoods between meadows or through a forest.

Custodial management – Management of a group of similar allotments with minimal expenditure of appropriated funds to continue protecting existing resource values.

D

Deep soil – A soil that is 40 to 60 inches deep over bedrock or to other material that restricts the penetration of plant roots.

Developed recreation – Recreation that requires facilities which in turn result in concentrated use of an area; for example, a campground.

Dispersed recreation – Recreation that does not occur in a developed recreation site; for example, hunting or backpacking.

Disturbance – Refers to events that alter the structure, composition, or function of terrestrial or aquatic habitats. Natural disturbances include, among others, drought, floods, wind, fires, wildlife grazing, insects, and pathogens. Human-caused disturbances include actions such as timber harvest, livestock grazing, roads, and the introduction of exotic species.

E

Ecological Site Inventory (ESI) – The basic inventory of present and potential vegetation on BLM rangelands. Ecological sites are differentiated on the basis of the kind, proportion, or amount of plant species.

Ecological status – The present state of vegetation of a range site in relation to the potential natural community for that site. Four classes are used to express the degree to which the production or composition of the present plant community reflects that of the potential natural community (climax):

Ecological Status (Seral stage)

Percent of Community in Climax Condition:

| | |
|-----------------------------|--------|
| Potential natural community | 76-100 |
| Late seral | 51-75 |
| Mid-seral | 26-50 |
| Early seral | 0-25 |

Ecosystem – A complete, interacting system of living organisms and the land and water that make up their environment; the home places of all living things, including humans.

Ecosystem Management – The use of a "whole-landscape" approach to achieve multiple-use management of public lands by blending the needs of people and environmental values in such a way that these lands represent diverse, healthy, productive, and sustainable ecosystems.

Endangered Species – Any species defined under the Endangered Species Act (ESA) as being in danger of extinction throughout all or a significant portion of its range. Listings are published in the *Federal Register*.

Environmental Assessment (EA) – One type of document prepared by federal agencies in compliance with the National Environmental Policy Act (NEPA) which portrays the environmental consequences of proposed federal actions which are not expected to have significant effects on the human environment.

Environmental Impact Statement (EIS) – One type of document prepared by federal agencies in compliance with the National Environmental Policy Act (NEPA) which portrays the environmental consequences of proposed major federal actions expected to have significant impacts on the human environment.

Ephemeral stream – A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no continuous supply from melting snow or other source, and its channel is above the water table at all times.

Exclusion Areas – Areas with sensitive resource values where rights-of-way and land use authorizations would not be authorized.

Existing Management Situation – A component of the AMP; a description of the existing management direction governing resource management programs for a Planning Area.

Extensive Recreation Management Area (ERMA) – Area where recreation is unstructured and dispersed with minimal regulatory constraints and where minimal recreation-related investments are required.

F

Federal Land Policy and Management Act of 1976 (FLPMA) – Law mandating that the BLM manage lands under its jurisdiction for multiple uses. Establishes guidelines for its administration; and provides for the management, protection, development, and enhancement of the public lands, among other provisions.

Fire Management Plan (FMP) – A strategic plan that defines a program to manage wildland and prescribed fires and documents the Fire Management Program in the approved land use plan. The plan is supplemented by operational procedures such as preparedness plans, preplanned dispatch plans, prescribed fire plans and prevention plans.

Fire regime – The characteristics of fire in a given ecosystem, such as the frequency, predictability, intensity, and seasonality of fire.

Fire return interval – The number of years between fire events for a specified area.

Flood plain – A nearly level alluvial plain that borders a stream and is subject to inundation under flood-stage conditions unless protected artificially. It is usually a constructional landform built of sediment deposited during overflow and lateral migration of the stream.

Forb – Any herbaceous plant that is not a grass or a grasslike species. Broad-leaved plants; includes plants that commonly are called weeds or wildflowers.

Functional at Risk (FAR) - Riparian/Wetland areas that are in functional condition but an existing soil, water, or vegetation attribute makes them susceptible to degradation.

G

Geographic Information System (GIS) – An information processing technology to input, store, manipulate, analyze, and display data; a system of computer maps with corresponding site specific information that can be combined electronically to provide reports and maps.

H

Herd Area – A geographic area identified as having provided habitat for a wild horse herd in 1971. A Herd Area may be solely the active Herd Management Area, or inactive, where wild horses are no longer managed, or a combination of both.

Herd Management Area (HMA) – A geographic area identified in a Management Framework Plan or Resource Management Plan for the long-term management of a wild horse herd.

Herd Management Area Plan – A plan that prescribes measures for the protection, management, and control of wild horses and their habitat on one or more HMAs, in conformance with decisions made in approved Management Framework or Resource Management Plans.

Hiking Trail - A pathway created and maintained by human foot traffic, saddle or pack stock, or constructed and maintained for these uses.

Hydrologic Unit Code (HUC) – A coding system developed by the U.S. Geological Service to map geographic boundaries of watersheds of various sizes.

Hydrothermal deposit – A mineral deposit formed by hot mineral-laden fluids.

I

Incident commander – Individual responsible for the management of all incident (fire) operations.

Interim Management Policy for Lands Under Wilderness Review (WSA IMP) – Policy for managing public lands under wilderness review. Section 603(c) of the FLPMA states: "During the period of review of such areas and until Congress has determined otherwise, the Secretary shall continue to manage such lands according to his authority under this Act and other applicable laws in a manner so as not to impair the suitability of such areas for preservation as wilderness, subject, however, to the continuation of existing mining and grazing uses and mineral leasing in the manner and degree in which the same was being conducted on the date of approval of this Act: Provided, that, in managing the public lands the Secretary shall by regulation or otherwise take any action required to prevent unnecessary or undue degradation of the lands and their resources or to afford environmental protection."

Intermittent stream – A stream, or reach of a stream, that flows for prolonged periods only when it receives groundwater discharge or long, continued contributions from melting snow or other surface and shallow subsurface sources.

Interior Columbia Basin Ecosystem Management Project (ICBEMP) – An on going project examining the effects (on a large regional scale) of past and present land use activities on the Interior Columbia River Basin ecosystem and a small part of the Great Basin ecosystem.

Interior drainage – A system of streams with no outlet to the sea (e.g. Great Basin).

J**K**

Known Geothermal Resource Area – "An area in which the geology, nearby discoveries, competitive interest, or other indicia would, in the opinion of the Secretary, engender the belief in men who are experienced in the subject matter that the prospect for extraction of geothermal stream or associated geothermal resources are good enough to warrant expenditures or money for that purpose" (43 CFR 3200.0-5(k)).

L

Land Use Authorizations – Those realty related authorizations such as leases, permits, and easements authorized under 43 CFR2920 and the R&PP Act. Land use authorizations also include any other authorizations with the exception of rights-of-way (43 CFR2800) and Special Recreation Permits (proposed in 43 CFR2930) generally contained in 43 CFR2000 series of regulations.

Leasable Minerals – Minerals that may be leased to private interests by the federal government including oil, gas, geothermal, coal, and sodium compounds.

Locatable Minerals – Minerals subject to exploration, development, and disposal by staking mining claims as authorized by the Mining Law of 1872, as amended. This includes deposits of gold, silver, and other uncommon minerals not subject to lease or sale.

M

Management Concern – Procedures or land use allocations that do not constitute issues but which are recognized, through the RMP/EIS preparation process, as needing modification or decision regarding management direction.

Management Direction – A statement of goals and objectives, management prescriptions, and associated standards and guidelines for attaining them.

Management Framework Plan (MFP) – BLM land use plan, predecessor to the RMP. Older generation of land use plans developed by the BLM. This generation of planning has been replaced by the Resource Management Plan (RMP).

Management Opportunities – A component of the AMP; actions or management directions that could be taken to resolve issues or management concerns.

Map unit – The basic system of description in a soil survey and delineation on a soil map. Can vary in level of detail.

Medium textured soil - Very fine sandy loam, loam, silt loam, or silt.

Mechanized Equipment - Any machine that uses or is activated by either a living or nonliving power source. This includes, but is not limited to, chain saws, power drills, aircraft, generators, motor vehicles, snow machines, etc. The term does not include shavers, wrist watches or clocks, flashlights, cameras, camp stoves, cell phones, radio transmitters/receivers, GPS units or other similar small hand held or portable equipment.

Mechanized Vehicle (for OHV) - Any vehicle, device, or contrivance that has moving parts for moving people or material in or over land, water, snow, or air. This includes, but is not limited to, sailboats, sailboards, hang gliders, parachutes, bicycles, game carriers, carts, and wagons. It does not include wheelchairs, horses, or other pack stock, skis, snowshoes, nonmotorized river craft, sleds, travois, or similar devices without moving parts.

Migration corridor – The habitat pathway an animal uses to move from one place to another.

Mineral Estate – Refers to the ownership of minerals at or beneath the surface of the land.

Mitigation – Measures designed to counteract environmental impacts or to make impacts less severe.

Monitoring – The periodic and systematic collection of resource data to measure progress toward achieving objectives.

Monitoring and Evaluation – The collection and analysis of data to evaluate the progress and effectiveness of on-the-ground actions in meeting resource management goals and objectives.

Motor Vehicle - Any vehicle, device, or contrivance which is self-propelled and is used for moving people or materials in or over land, water, snow, or air and is powered by a motor or engine.

Motorized Equipment - Any machine that uses or is activated by a motor, engine, or other power source. This includes, but is not limited to, chain saws, power drills, aircraft, generators, motor vehicles, snow machines, etc. The term does not include shavers, wrist watches or clocks, flashlights, cameras, camp stoves, cell phones, radio transmitters/receivers, GPS units or other similar small hand held or portable equipment.

Multiple Use – Management of public land and its resources to best meet various present and future needs of the American people. This means coordinated management of resources and uses to assure the long-term health of the ecosystem.

N

National Environmental Policy Act of 1969 (NEPA) – Law requiring all federal agencies to evaluate the impacts of proposed major federal actions with respect to their significance on the human environment.

National Wildlife Refuge (NWR) – An area administered by the U.S. Fish and Wildlife Service for the purpose of managing certain fish or wildlife species.

Naturalness (a primary wilderness value) – An area that generally appears to have been affected primarily by the forces of nature with the imprint of people's work substantially unnoticeable.

Noxious Weed – A plant specified by law as being especially undesirable, troublesome, and difficult to control. A plant species designated by federal or state law as generally possessing one or more of the following characteristics: aggressive and difficult to manage; parasitic; a carrier or host of serious insects or disease; or nonnative, new, or not common to the United States. According to the Federal Noxious Weed Act (PL 93-639), a noxious weed is one that causes disease or has other adverse effects on man or his environment and therefore is detrimental to the agriculture and commerce of the United States and to the public health.

O

Objectives (management) – In this EIS, refers to indicators used to measure progress toward attainment of goals. They address short- and long-term actions taken to meet goals and the desired ranges of future conditions.

Off-Highway Vehicle (OHV) – Any motorized vehicle capable of, or designed for, travel on or immediately over land, water, or other natural terrain, excluding the following: 1) any nonamphibious registered motorboat; 2) any military, fire, emergency, or law enforcement vehicle while being used for emergency purposes; 3) any vehicle whose use is expressly permitted by the authorized officer, or otherwise officially approved; 4) vehicles in official use; and 5) any combat or combat support vehicle when used in times of national defense emergencies.

P

Perennial – A plant that lives for three or more years.

Perennial stream – A stream in which water is present during all seasons of the year.

Permeability – The quality of the soil that enables water to move downward through the profile, measured as the number of inches per hour that water moves downward through the saturated soil.

pH value – A numerical designation of acidity and alkalinity in soil.

Playa Lake – A shallow lake that is seasonally dry. Soils on the lake bottom are usually quite alkaline.

Pluvial – Referring to a period of greater rainfall.

Pluvial Lake – A lake formed during a period of exceptionally high rainfall (e.g., a time of glacial advance during the Pleistocene epoch) and now either extinct or existing as a remnant, such as Lake Bonneville.

Point source pollution – Pollution that comes from a single identifiable source such as a smokestack, a sewer, or a pipe.

Prescribed burning – Controlled application of fire to wildland fuels in either their natural or modified state, under specified environmental conditions which allow the fire to be confined to a predetermined area and at the same time to produce the fire line intensity and rate of spread required to attain planned resource management objectives.

Prescribed fire – Any fire ignited by management actions to meet specific objectives. A written and approved prescribed fire plan must exist, and NEPA requirements must be met prior to ignition. The introduction of fire to an area under regulated conditions for specific management purposes (usually vegetation manipulation).

Prescribed Natural Fire - A naturally-ignited fire that is managed for resource benefits. Currently called Wildland Fire Use.

Prescription – Written statement defining objectives to be attained, as well as measurable criteria which guide the selection of appropriate management actions. Prescription criteria may include safety, economic, public health, environmental, geographic, administrative, social or legal considerations under which the fire will be allowed to burn.

Primary wilderness values – The primary or key wilderness values described in the Wilderness Act by which WSAs and wildernesses are managed to protect and enhance the wilderness resource. Values include roadlessness, naturalness, solitude, primitive and unconfined recreation, and size.

Primitive and unconfined recreation (a primary wilderness value) – nonmotorized and undeveloped types of outdoor recreation activities. Refers to wilderness recreation opportunities such as nature study, hiking, photography, backpacking, fishing, hunting, and other related activities. Does not include the use of motorized vehicles, bicycles, or other mechanized means of travel.

Proper Functioning Condition (PFC) – PFC is both a qualitative method for assessing the physical function of riparian-wetland areas, and a defined condition of a riparian-wetland area.

Public lands – Any land or interest in land owned by the citizens of the United States and administered by the Secretary of the Interior through the BLM as defined in the FLPMA.

Q

R

Rangeland – Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs suitable for grazing or browsing. It includes natural grasslands, savannas, many wetlands, some deserts, tundras, and areas that support certain forb and shrub communities.

Range site – An area of rangeland where climate, soil, and relief are sufficiently uniform to produce a distinct natural plant community. A range site is the product of all the environmental factors responsible for its development. It is typified by an association of species that differ from those on other range sites in kind or proportion of species or total production.

Record of Decision (ROD) – An official document in which a deciding official states the alternative that will be implemented from a prepared Final EIS.

Recreation site – An area where management actions are required to provide a specific recreation setting and activity opportunities, to protect resource values, provide public visitor safety and health, and/or to meet public recreational use demands and recreation partnership commitments. A site may or may not have permanent facilities.

Recreational river – A river or section of a river that is readily accessible by road or railroad. It may have had some development along the shorelines and may have undergone some impoundments or diversions in the past.

Research Natural Area (RNA) – An area where natural processes predominate and which is preserved for research and education. Under current BLM policy, these areas must meet the relevance and importance criteria of ACECs and are designated as ACECs. An area of significant scientific interest that is designated to protect its resource values for scientific research and study.

Resource advisor – Resource specialist responsible to the incident commander for gathering and analyzing information concerning values-at-risk that may be impacted by fire or fire suppression activities.

Resource Area – The "on-the-ground" management unit of the BLM comprised of BLM administered land within a specific geographic area.

Resource Area Profile – A component of the AMP; a description of the current condition, amount, location, use, and demands of the natural resources in a Resource Area.

Resource Management Plan (RMP) – Current generation of land use plans developed by the BLM under the Federal Land Policy and Management Act. Replaces the older generation Management Framework Plans. Provides long-term (up to 20 years) direction for the management of a particular area of land and its resources, usually corresponding to a BLM Resource Area.

Right-of-way (ROW) – A permit or an easement which authorizes the use of public land for certain specified purposes, commonly for pipelines, roads, telephone lines, electric lines, reservoirs, etc; also, the reference to the land covered by such an easement or permit.

Right-of-way corridor – A parcel of land that has been identified by law, Secretarial Order, through a land use plan, or by other management decision as being the preferred location for existing and future right-of-way grants and suitable to accommodate one type of right-of-way or one or more rights-of-way which are similar, identical or compatible.

Riparian area – Area with distinctive soil and vegetation between a stream or other body of water and the adjacent upland; includes wetlands and those portions of floodplains and valley bottoms that support riparian vegetation.

Risk assessment – Assessing the chance of fire starting, naturally- or human-caused, and its potential risk to life, resources and property.

Road - Constructed or evolved transportation route that is normally maintained for regular use (except during periods of closure) that can be reasonably and prudently driven by motorized or mechanized vehicles.

Route - A linear ground transportation feature such as a way or road.

S

Salable Minerals – High volume, low value mineral resources including common varieties of rock, clay, decorative stone, sand, gravel, and cinder.

Scenic river – A river, or section of a river, that is free of impoundments and whose shorelines are largely undeveloped but accessible in places by roads.

Scoping – The process of identifying the range of consideration, issues, management concerns, preliminary alternatives, and other components of an environmental impact statement or land-use planning document. It involves both internal and external, or public, involvement.

Section 202 lands – Lands being considered for wilderness designation under Section 202 of the Federal Land Policy and Management Act of 1976.

Sensitive species – Species identified by a Forest Service regional forester, or BLM state director, for which population viability is a concern either (a) because of significant current or predicted downward trends in population numbers or density, or (b) because of significant current or predicted downward trends in habitat capability that would reduce a species' existing distribution.

Seral – Refers to the sequence of transitional plant communities during succession. Early-seral refers to plants that are present soon after a disturbance or at the beginning of a new successional process (such as seedling or sapling growth stages in a forest); mid-seral in a forest would refer to pole or medium sawtimber growth stages; late- or old-seral refers to plants present during a later stage of plant community succession (such as mature and old forest stages).

Seral stage – The developmental phase of a forest stand or rangeland with characteristic structure and plant species composition. The rated departure of a plant community from a described PNC for a specific ecological site. Low-seral stage is an existing plant community which is defined as 0 to 25 percent comparability to the defined PNC; Mid-seral stage is an existing plant community which has 26 to 50 percent comparability to the PNC; Late seral stage is 51 to 75 percent comparable to the PNC; PNC is an existing plant community with 76 to 100 percent comparability to the defined PNC.

Slope – The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance.

Soil association – A group of soils geographically associated in a characteristic repeating pattern and defined and delineated as a single soil map unit.

Soil classification – The systematic arrangement of soils into groups or categories on the basis of their characteristics.

Soil compaction – An increase in soil bulk density of 15 percent or more from the undisturbed level.

Soil complex – A map unit of two or more kinds of soils in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping.

Soil Horizon - A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes.

Soil profile – A vertical section of the soil extending through all its horizons and into the parent material.

Soil series - A nationally defined soil type set apart on distinct soil properties that affect use and management. In a soil survey, this includes a group of soils having profiles that are almost alike, except for differences in texture of the surface layer or of the underlying material. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.

Soil survey – A field investigation resulting in a soil map showing the geographic distribution of various kinds of soil and an accompanying report that describes the soil types and interprets the findings.

Soil texture – The relative proportions of sand, silt, and clay particles in a mass of soil.

Solitude (a primary wilderness value) – The state of being alone or remote from habitations; a lonely, unfrequented, or secluded place. The intent is to evaluate the opportunity for solitude in comparison to habitations of people.

Special Recreation Management Area (SRMA) – An area where recreation is the principal management objective, where intensive recreation management is needed, and where more than minimal recreation related investments are required.

Special Status Species – Plant or animal species known or suspected to be limited in distribution, rare or uncommon within a specific area, and/or vulnerable to activities which may affect their survival. Lists of Special Status Species are prepared by knowledgeable specialists through the State of Oregon; the BLM prepares a list of state sensitive species predominantly based on the list prepared biennially by the ONHP.

Stand – A community of trees occupying a specific area and sufficiently uniform in species, age, spatial arrangement and condition as to be distinguishable from trees on surrounding lands.

State Implementation Plan (SIP) – A document prepared by each state describing existing air quality conditions and measures that will be taken to attain and maintain national ambient air quality standards.

State Listed Species – Any plant or animal species listed by the State of Oregon as threatened or endangered within the state under ORS 496.004, ORS 498.026, or ORS 564.040.

Step-down – The process of applying broad-scale science findings and land use decisions to site specific areas using a hierarchical approach (subbasin review) of understanding current resource conditions, risks, and opportunities.

Stream channel – The hollow bed where a natural stream of surface water flows or may flow; the deepest or central part of the bed, formed by the main current and covered more or less continuously by water.

Subalpine – A terrestrial community that is generally found in harsher environments than the montane terrestrial community. Subalpine communities are generally colder than montane and support a unique clustering of wildlife species.

Subbasin review – An interagency collaborative consideration of resources, resource management issues, and management recommendations for one or more subbasins or watershed drainages approximately 800,000 to 1,000,000 acres in size, equivalent to a 4th-field HUC.

Subwatershed – A drainage area of approximately 20,000 acres, equivalent to a 6th-field HUC. Hierarchically, subwatersheds (6th-field HUC) are contained within a watershed (5th-field HUC), which in turn is contained within a subbasin (4th-field HUC).

Succession – A predictable process of changes in structure and composition of plant and animal communities over time. Conditions of the prior plant community or successional stage create conditions that are favorable for the establishment of the next stage. The different stages in succession are often referred to as "seral stages." (See Seral.)

Sustainability – (1) meeting the needs of the present without compromising the abilities of future generations to meet their needs; emphasizing and maintaining the underlying ecological processes that ensure long-term productivity of goods, services, and values without impairing productivity of the land. (2) In commodity production, refers to the yield of a natural resource that can be produced continually at a given intensity of management.

Supplemental wilderness values – Includes ecological (e.g., vegetation, wildlife, and overall biological/botanical processes and values associated with the natural environment), geological, scientific, educational, scenic, and historic values. When present, they can enhance primary wilderness values, but are not mandated by Congress.

Sustained yield – Maintenance of an annual or regular periodic output of a renewable resource from public land consistent with the principles of multiple use.

T

Terrestrial communities – Groups of cover types with similar moisture and temperature regimes, elevational gradients, structures, and used by vertebrate wildlife species.

Threatened Species – Any plant or animal species defined under the ESA as likely to become endangered within the foreseeable future throughout all or a significant portion of its range. Listings are published in the *Federal Register*.

Trend – The direction of change in ecological status observed over time. Trend is described as toward or away from the PNC, or as not apparent.

U

Upland (geology) – Land at a higher elevation, in general, than the alluvial plain or stream terrace; land above the lowlands along streams.

Utilization – The proportion or degree of the current year's forage production that is consumed or destroyed by animals (including insects). Utilization may refer either to a single plant species, a group of species, or to the vegetation as a whole. Utilization is synonymous with use.

V

Values-at-risk – Any or all natural resources, improvements, or other values which may be jeopardized if a fire occurs (value-at-risk, risk of resource values).

Visual Resource Management (VRM) Objectives

Class I - The objective of this classification is to preserve the existing character of the landscape. This class provides for natural ecological changes and limited management activity. The level of change should be very low and must not attract attention. Class I is assigned to those areas where a management decision has been made to preserve a natural landscape.

Class II-The objective of this classification is to retain the existing character of the landscape. The level of change to landscape characteristics should be low. Management activities may be seen but should not attract the attention of a casual observer. Any changes must conform to the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape. This class represents the minimum level of VRM for WSAs.

Class III-The objective of Class III is to partially retain the existing character of the landscape. Moderate levels of change are acceptable. Management activities may attract attention but should not dominate the view of a casual observer. Changes should conform to the basic elements of the predominant natural features of the characteristic landscape.

Class IV-The objective of Class IV is to provide for management activities that require major modification of the landscape. These management activities may dominate the view and become the focus of viewer attention; however, every effort should be made to minimize the impact of these projects by carefully locating activities, minimizing disturbance, and designing the projects to conform to the characteristic landscape.

W

Way - A travel route in a WSA maintained solely by the passage of vehicles which has not been improved and/or maintained by mechanical means to ensure relatively regular and continuous use.

Wild River - A river or section of a river that is free of impoundments and generally inaccessible except by trail, with watersheds and shorelines essentially primitive and waters unpolluted.

Wildland Fire - A general category of lightning or human-ignited fire in natural vegetation. Includes wildland fires, prescribed fires, and fire managed for resource benefits.

Wildland Fire Use - An unplanned ignition that is managed for resource benefits. Formally called Prescribed Natural Fire.

Withdrawal – Withholding an area of federal land from settlement, sale, location, or entry, under some or all of the general land laws, for the purpose of limiting activities under those laws in order to maintain other public values in the area or reserving the area for a particular public purpose or program; or transferring jurisdiction over an area of federal land, other than "property" governed by the Federal Property and Administrative Services Act, as amended (40U.S.C.472) from one department, bureau, or agency to another department, bureau, or agency.

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- _____. 2001. BLM. GIS Map: *Current Geologic Map*.
- _____. 2001. BLM. GIS Map: *Grazing Allotments*.

-
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- _____. 2001. BLM. GIS Map: *Burns District Base Map*.
- _____. 2001. BLM. GIS Map: *General Vegetation*.
- _____. 2001. BLM. GIS Map: *General Soils*.
- _____. 2001. BLM. GIS Map: *Fish*.
- _____. 2001. BLM. GIS Map: *WSAs pre- and post-act (smaller size)*.
- _____. 2001. BLM. GIS Map: *Steens Mountain w/Boundaries and Exchanges*.
- _____. 2001. BLM. GIS Map: *8.5 x 11 Boundaries of Bureau of Land Management (BLM) RAs in Oregon*.
- _____. 2001. BLM. GIS Map: *Wildlife*.
- _____. 2001. BLM GIS Map: *Post-Act Base Map with Exchanges*.
- _____. 2001. BLM. GIS Map: *New WSAs Post-Act & Exchanges*.
- _____. 2001. BLM. GIS Map: *Small Congressional Designations*.
- _____. 2001. BLM. GIS Map: *Range Condition*.
- _____. 2001. BLM. GIS Map: *Base Map with RNAs, ACECs, HMAs, WJMA and Recreation area*.
- _____. 2001. BLM. GIS Map: *Roads Closed in Wilderness*.
- _____. 2001. BLM. GIS Map: *Base Map Andrews/Steens*.
- _____. 2001. BLM. GIS Map: *Subbasins and 303(d) Listed Streams*.
- _____. 2001. BLM. GIS Map: *Cultural Resources*.
- _____. 2001. BLM. GIS Map: *Smaller Map of all WSAs and Boundaries*.
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6.3 Index

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|---|--|
| ACECs | S-1, S-3-1-6, 1-9, 2-3, 2-48-2-50, 2-53-2-56, 2-60, 2-61, 2-65-2-69, 2-81-2-84, 2-86-2-88, 2-96-2-100, 2-105, 2-109-2-111, 2-129, 2-192, 2-0, 2-193, 2-0, 3-45, 3-50, 3-67, 4-2, 4-16, 4-18, 4-19, 4-94, 4-96, 4-98-4-100, 4-118, 4-124, 4-137, 4-144, 4-150, 4-152, 4-155-4-157, 4-162, 4-163, 4-168, 4-186, 4-205, 4-211, 4-224, 4-228, 4-229, 4-232, 4-233, 4-240-4-243, 5-7, 6-8, 6-25 |
| Adaptive Management | 2-4-2-6, 2-10, 4-1, 4-7, 4-20, 4-21, 4-31, 4-84, 4-111, 4-124, 6-1 |
| Advanced ecological status | S-1, 2-7, 2-12, 2-13, 2-17, 2-18, 2-39, 2-163, 2-165, 2-172, 4-11-4-15, 4-29, 4-35-4-37, 4-39, 4-40, 4-69, 4-73-4-75, 4-78, 4-80, 4-83, 4-85, 4-87, 4-104, 4-113, 4-116, 4-129, 4-130, 4-179, 4-180, 4-182, 4-184, 4-188, 6-1 |
| Agricultural Plant and Animal Health Inspection Service (APHIS) | 3-23 |
| Air Quality | xiv, 1-7, 2-8, 2-9, 2-136, 2-137, 2-163, 3-2, 4-2-4-6, 4-50, 4-169, 4-195, 4-198, 4-200, 4-201, iii, 5-7, 6-10 |
| Allotment | vi, viii-xi, xiv, S-3, 1-2, 2-13, 2-15, 2-51, 2-53, 2-54, 2-56, 2-57, 2-70, 2-71, 2-73-2-75, 2-111, 2-117, 2-122-2-125, 2-129, 2-131, 2-133, 2-180, 3-8, 3-10, 3-48-3-51, 3-54, 4-7, 4-9, 4-18, 4-19, 4-39, 4-82, 4-86, 4-90, 4-97, 4-107, 4-114, 4-121, 4-126, 4-155, 4-177, 4-181, 4-185, 4-188, 4-192, 4-201, 4-235, i-iii, 6-1, 6-21, 6-23-6-25 |
| Allotment (grazing) | 6-1 |
| Allotment Management Plan (AMP) | 1-2, 6-1 |
| AML | xiv, 2-71, 2-72, 2-179, 3-47, 3-48, 4-22, 4-34, 4-36, 4-55-4-59, 4-93, 4-106, 4-128, 4-129, 4-173, 4-176, 4-178, 4-179, 4-183, 4-186, iii, 6-1 |
| AMS | xiv, S-1, 1-3, 1-4, 2-3, iii, 5-1, 5-3, 5-5, 6-1 |
| AMU | ii, iv, v, xiv, S-1-3, 1-1, 1-2, 1-6, 1-10, 2-11, 2-12, 2-17, 2-28, 2-40, 2-43, 2-44, 2-47-2-55, 2-73, 2-75, 2-82-2-88, 2-90, 2-91, 2-97-2-100, 2-102, 2-103, 2-105-2-108, 2-112, 2-176, 2-180, 2-184-2-186, 2-184, 2-188, 2-0, 2-189, 2-192, 2-191, 2-192, 3-3-3-6, 3-10, 3-12, 3-18, 3-20, 3-23, 3-26, 3-27, 3-36-3-38, 3-44, 3-45, 3-47, 3-51, 3-55, 3-59, 3-61, 3-64, 3-66-3-68, 3-71, 4-10, 4-16, 4-18, 4-19, 4-23, 4-28, 4-29, 4-31, 4-51, 4-58, 4-59, 4-67, 4-82, 4-86, 4-88, 4-92, 4-96-4-98, 4-107, 4-114, 4-118, 4-153, 4-155-4-157, 4-162, 4-165, 4-168, 4-179, 4-181, 4-183, 4-186, 4-188, 4-192, 4-208, 4-209, 4-211, 4-212, 4-214, 4-218, 4-220, 4-221, 4-224-4-232, 4-242, 4-254-4-256, 4-258, iii |
| Analysis of the Management Situation (AMS) | S-1, 6-1 |
| Andrews Management Unit (AMU) | ii, iv, S-1 |
| Andrews MFP | 1-1, 1-2, 2-7, 2-48-2-50, 2-59, 2-67, 2-158, 3-61, 3-63, 3-64, 3-67, 4-206 |
| Andrews RA | 1-1, 1-2, 1-4, 1-9, 2-82, 2-160, 3-1, 3-73, 4-41, 4-42, 4-150, 4-194, 4-196, 4-203, 5-1, 5-2 |
| Andrews Resource Area (Andrews RA) | 1-1 |
| Animal unit | xiv, 2-54, iii, 6-1 |
| Animal Unit Month (AUM) | 6-1 |
| APHIS | xiv, 3-23, 3-29, iii, 6-21 |
| Appropriate Management Level (AML) | 6-1 |
| Areas of Critical Environmental Concern (ACECs) | S-1 |
| AUM | xiv, 3-42, 3-51, iii, 6-1 |
| Avoidance Areas | S-2, 2-52, 2-54, 2-80, 2-86-2-88, 2-184, 4-12, 4-86, 4-115, 4-118, 4-122, 4-156, 4-158, 4-206, 4-207, 4-209, 4-212, 6-1 |
| Basin (river) | 6-1 |
| BCB | xiv, 2-108, 2-189, 3-65, 3-66, iii |
| Beneficial use | 2-12, 2-14, 4-20, 4-69, 4-124, 4-197 |
| Best Management Practices (BMPs) | 2-10, 6-1 |
| Biomass | 2-20, 2-21, 2-25, 2-80, 2-85, 2-0, 2-166, 3-9, 4-53, 4-54, 4-58, 4-59, 4-204 |
| BLM | ii, iv-vi, viii, ix, xi, xii, xiv, S-1, S-3, 1-1-1-12, 2-1, 2-2, 2-5-2-13, 2-15-2-19, 2-26-2-30, 2-32-2-35, 2-37-2-43, 2-45-2-48, 2-50-2-52, 2-54, 2-56-2-60, 2-62, 2-63, 2-67-2-69, 2-73, 2-78, 2-80, 2-81, 2-83, 2-84, 2-86, 2-88, 2-89, 2-91, 2-92, 2-96, 2-99, 2-100, 2-110, 2-118, 2-134-2-136, 2-156-2-161, 2-172, 2-175, 2-185, 2-186, 3-2-3-4, 3-6, 3-10, 3-13, 3-17, 3-19, 3-22, 3-23, 3-25, 3-26, 3-28, 3-29, 3-31-3-39, 3-41-3-50, 3-57-3-75, 3-77, 4-1, 4-3-4-8, 4-10, 4-12, 4-16, 4-18, 4-21, 4-23, 4-25, 4-27, 4-31-4-35, 4-37, 4-38, 4-52, 4-55, 4-57, 4-58, 4-61, 4-62, 4-65, 4-66, 4-72-4-79, 4-81, 4-82, 4-86-4-88, 4-94, 4-97, 4-100-4-102, 4-104, 4-106, 4-107, 4-113, 4-116, 4-118, 4-119, 4-123, 4-124, 4-127, 4-128, 4-135-4-137, 4-139, 4-142, 4-144-4-146, 4-148, 4-150, 4-159, 4-160, 4-167-4-169, 4-171-4-173, 4-175-4-177, 4-181, 4-183, 4-186, 4-188-4-190, 4-203, 4-205, 4-206, 4-211, 4-214-4-218, 4-229, 4-230, 4-233, 4-235, 4-244, 4-245, 4-252, 4-258-4-262, i, iii, 5-1-5-6, 6-2-6-5, 6-8-6-10, 6-12-6-14, 6-17, 6-19, 6-21-6-26 |
| BLM assessment species | 3-34, 6-2 |

ANDREWS MANAGEMENT UNIT/STEENS MOUNTAIN COOPERATIVE MANAGEMENT AND PROTECTION AREA
PROPOSED RESOURCE MANAGEMENT PLAN AND FINAL ENVIRONMENTAL IMPACT STATEMENT

| | |
|--|---|
| BLM sensitive species | 3-29, 6-2 |
| BLM tracking species | 3-34, 3-72, 6-2 |
| BMPs | xiv, 2-10-2-12, 2-14, 2-17, 2-18, 2-93, 2-163, 2-167, 3-6, 4-7-4-12, 4-14-4-18, 4-20-4-23, 4-26, 4-28-4-34, 4-39, 4-42, 4-54, 4-62, 4-63, 4-65-4-67, 4-71-4-76, 4-78, 4-99, 4-102, 4-104, 4-127, 4-158, 4-169, 4-193, 4-215, 4-217, 4-218, iii, 6-1, 6-16 |
| Bureau of Land Management (BLM) | iv, S-1, 6-2, 6-21, 6-25 |
| CAA | xiv, 2-8, 3-2, 4-169, iii |
| Candidate Species | 2-17, 3-20, 3-28, 3-29, 6-2 |
| CEQ | xiv, 2-50, 4-204, iii |
| Classification | 1-11, 2-40, 2-52, 2-86-2-88, 2-159, 2-160, 3-8, 3-17, 3-29, 3-73, 3-75, 4-260, 6-2, 6-9, 6-11, 6-15, 6-18 |
| Clean Air Act (CAA) | 2-8 |
| Climax vegetation | 3-14, 6-2 |
| CMPA | ii, iv, v, x, xi, xiv, S-1-3, 1-1, 1-2, 1-6, 1-7, 1-10, 2-2, 2-7, 2-8, 2-11, 2-12, 2-17, 2-23, 2-28, 2-40, 2-43, 2-47-2-57, 2-73, 2-75, 2-81-2-108, 2-112, 2-130, 2-131, 2-145, 2-146, 2-149, 2-151, 2-154, 2-159, 2-176, 2-180, 2-183, 2-188, 2-0, 2-188, 2-0, 2-188, 2-190-2-192, 2-189, 2-190, 2-189, 2-190, 2-189, 2-190, 3-1, 3-3-3-5, 3-10, 3-12-3-14, 3-18, 3-20, 3-23, 3-26, 3-27, 3-30, 3-32, 3-36-3-38, 3-42-3-44, 3-47, 3-48, 3-51, 3-55, 3-58-3-68, 3-71-3-73, 3-75, 3-76, 4-10, 4-11, 4-16, 4-18, 4-19, 4-23-4-26, 4-28, 4-31, 4-41, 4-58, 4-59, 4-78, 4-82, 4-86, 4-88, 4-92, 4-96, 4-97, 4-107, 4-111, 4-114, 4-118, 4-153, 4-155-4-157, 4-159-4-162, 4-164, 4-181, 4-183, 4-186, 4-188, 4-192, 4-201, 4-210, 4-211, 4-214-4-218, 4-220-4-222, 4-224-4-232, 4-241, 4-246, 4-253-4-260, ii, iii, 6-25 |
| Code of Federal Regulations (CFR) | 1-1 |
| Colluvium | 2-40, 3-9, 3-10, 6-2 |
| Commodities | 2-7, 2-50, 2-54, 2-55, 3-41, 4-158, 4-204, 6-2 |
| Community | viii, xv, 1-7, 2-15, 2-21, 2-25, 2-30, 2-31, 2-34, 2-36, 2-51, 2-54, 2-57, 2-73, 2-74, 2-83, 2-84, 2-135, 2-163, 2-0, 2-166, 2-0, 2-183, 3-7-3-9, 3-11-3-17, 3-20, 3-21, 3-39, 3-42, 3-50, 3-55-3-58, 3-61, 3-70, 3-75, 4-8, 4-11, 4-13, 4-15, 4-17, 4-19, 4-23, 4-31, 4-32, 4-34, 4-35, 4-38, 4-39, 4-41, 4-43, 4-47-4-49, 4-51, 4-53-4-59, 4-64, 4-67, 4-72, 4-74, 4-75, 4-77-4-79, 4-91, 4-92, 4-94, 4-98-4-100, 4-102, 4-107, 4-123, 4-136, 4-147, 4-149, 4-151, 4-158, 4-166, 4-175, 4-177, 4-188, 4-193, 4-195, 4-197, 4-198, 4-200, 4-201, 4-206-4-208, 4-210, 4-211, 4-237, 4-240, iv, 5-4, 5-6, 6-1-6-3, 6-8-6-10, 6-15, 6-18, 6-20 |
| Consultation | ix, S-1, S-5, 1-8, 1-10, 2-7, 2-38, 2-42, 2-43, 2-47, 2-48, 2-61, 2-64, 2-175, 3-33, 3-35, 3-36, 3-49, 4-101, 4-124, 4-128, 4-138, 4-145-4-147, 4-151, i, 5-1, 6-2, 6-22-6-25 |
| Council on Environmental Quality (CEQ) | 2-50 |
| Criteria pollutants | 2-8 |
| Cultural Resources | ix, S-3, 1-2, 1-8, 2-42, 2-43, 2-46, 2-76, 2-174, 3-36, 3-64-3-66, 3-75, 4-43, 4-133, 4-138-4-147, 4-161, 4-162, 4-166, 4-194, 4-219, 4-223, i, 5-8, 6-13, 6-14, 6-17, 6-25 |
| Cumulative effects | xii, S-4, 4-1, 4-6, 4-20, 4-30, 4-40, 4-51, 4-59, 4-68, 4-77, 4-78, 4-92, 4-100, 4-123, 4-127, 4-131, 4-138, 4-139, 4-145, 4-151, 4-158, 4-167, 4-172, 4-173, 4-186, 4-192, 4-203, 4-214, 4-217, 4-222, 4-232, 4-243, 4-251, 4-259, 4-262, 6-16 |
| Custodial management | 6-2 |
| CWA | xiv, 2-10-2-12, 2-14, 2-18, 2-35, 2-163, 2-165, 3-4, 3-6, 4-7, 4-16, 4-19, 4-20, 4-37, 4-39, 4-40, 4-169, 4-182, iii |
| DEQ | xiv, 1-7, 1-8, 2-8-2-12, 2-30, 2-34, 2-35, 3-3, 3-4, 3-6, 4-3, 4-7, 4-20, 4-31, 4-73, 4-79, 4-169, iii, 5-2 |
| Desired Range of Conditions (DRC) | S-4 |
| Developed recreation | 2-18, 2-101-2-103, 2-189, 3-65, 3-66, 4-137, 4-144, 4-150, 4-222, 4-225, 4-229, 4-230, 4-232, 6-3 |
| Dispersed recreation | 1-7, 2-4, 2-53, 2-56, 2-101-2-104, 2-190, 2-189, 2-190, 2-189, 2-190, 3-64, 3-66, 4-28, 4-29, 4-91, 4-115, 4-122, 4-132, 4-134, 4-137, 4-139, 4-144, 4-150-4-152, 4-166, 4-178, 4-180, 4-182, 4-185, 4-194, 4-222, 4-224-4-227, 4-229-4-231, 4-236, 6-3 |
| Disposal | 1-7, 2-33, 2-68, 2-69, 2-80-2-85, 2-90, 2-105, 2-145, 2-154, 2-177, 2-183, 2-184, 2-183, 2-182-2-184, 2-182-2-184, 2-187, 2-182, 2-183, 2-185, 3-59, 4-4-4-6, 4-92, 4-108, 4-141, 4-147, 4-160-4-162, 4-164-4-166, 4-188, 4-189, 4-204-4-213, 4-245, 4-250, 4-253, 4-254, 6-2, 6-5 |
| EA | xiv, 1-2, 1-8, 2-27, 2-28, 2-91-2-93, 2-95, 2-156, 2-194, 2-0, 2-194, 2-0, 2-194, 3-17, 3-23, 3-68, 4-10, 4-61, 4-82, 4-108, 4-246, iii, 6-3, 6-23, 6-24 |
| Ecological Site Inventory (ESI) | 6-3 |
| Ecological Status | S-1, 1-5, 2-7, 2-12-2-14, 2-17, 2-18, 2-24, 2-29, 2-39, 2-125, 2-163, 2-165, 2-172, 3-7, 3-50, 3-55, 4-8, 4-11-4-17, 4-25, 4-26, 4-28, 4-29, 4-31-4-33, 4-35-4-37, 4-39, 4-40, 4-64, 4-69, 4-73- |

| | |
|--|--|
| 4-78, 4-80, 4-81, 4-83, 4-85, 4-87, 4-89, 4-94-4-96, 4-98, 4-104, 4-105, 4-113, 4-116, 4-117, 4-120, 4-129, 4-130, 4-152, 4-177, 4-179, 4-180, 4-182, 4-184, 4-188, 4-190-4-192, 4-195, 4-199, 4-200, 6-1, 6-3, 6-11 | |
| Ecosystem . . . ii, xiv, S-4, 1-3, 1-10, 1-12, 2-2, 2-4, 2-5, 2-11, 2-14, 2-19, 2-30-2-32, 2-36, 2-76, 2-77, 2-136, 2-137, 2-155, 2-181, 3-7, 3-9, 3-29, 3-33, 3-35, 4-45, 4-55, 4-85, 4-91, 4-103, 4-105-4-107, 4-109, 4-111-4-113, 4-115, 4-119, 4-127, 4-200, 4-201, 4-250, 4-257, iii, 5-1, 6-2-6-6, 6-14-6-16, 6-19, 6-21, 6-23 | |
| Ecosystem Management . . . ii, xiv, S-4, 1-10, 1-12, 2-2, 2-4, 2-30-2-32, 2-36, 4-45, 4-55, 4-91, 4-103, 4-105-4-107, 4-109, 4-111, 4-112, 4-115, 4-119, iii, 6-3, 6-5, 6-14-6-16, 6-19, 6-21, 6-23 | |
| Endangered Species Act (ESA) | 6-3 |
| Energy and Minerals S-1, 2-51, 2-57, 2-80, 2-177, 3-43, 3-60, 4-2-4-6, 4-9, 4-12, 4-14, 4-16, 4-17, 4-19, 4-22-4-25, 4-27, 4-28, 4-32, 4-34-4-36, 4-38, 4-39, 4-44, 4-46-4-49, 4-52, 4-53, 4-55-4-58, 4-61-4-64, 4-66, 4-67, 4-72-4-77, 4-79, 4-81, 4-84, 4-86, 4-88, 4-90, 4-93, 4-95-4-98, 4-102, 4-106, 4-111, 4-114, 4-118, 4-121-4-123, 4-134, 4-142, 4-147, 4-152-4-157, 4-160-4-162, 4-164-4-167, 4-172, 4-175, 4-177, 4-180, 4-181, 4-183, 4-185, 4-187-4-191, 4-196, 4-199, 4-201, 4-202, 4-207, 4-219, 4-223, 4-225, 4-227, 4-229, 4-230, 4-232, 4-240, 4-253, 5-7 | |
| Environmental Assessment (EA) | 1-2, 6-3 |
| Environmental Impact Statement (EIS) | 1-2, 6-3 |
| EPA | xiv, 2-8, 2-10, 3-4, 3-6, 3-76, 3-77, iii |
| Ephemeral stream | 6-3 |
| ERMA | xiv, 2-100, 2-101, 3-66, 4-222, 4-254-4-256, iii, 6-4 |
| ESA | xiv, 2-12-2-14, 2-18, 2-32, 2-34, 2-35, 2-171, 3-19, 3-28, 3-31-3-34, 4-39, 4-40, 4-92, 4-100, 4-101, 4-123-4-126, 4-182, 4-261, 4-262, iii, 6-2, 6-3, 6-11 |
| Exclusion Areas | v, x, xi, 1-7, 2-53, 2-54, 2-56, 2-80, 2-86, 2-88, 2-89, 2-185, 2-184, 3-61, 4-88, 4-155-4-157, 4-210-4-212, 4-255, ii, 6-3 |
| FAR | xiv, 2-158, 3-8, 3-11, 3-12, 3-29, 4-39, 4-162, iii, 6-4 |
| Federal Land Policy and Management Act of 1976 (FLPMA) | 6-4 |
| Fire effects | 2-45, 3-57, 4-149, 6-26, 6-27 |
| Fire intensity | 2-165, 2-0, 4-43, 4-45, 4-48, 4-85, 4-113, 4-195, 4-197, 4-199 |
| Fire Management Plan (FMP) | 2-76, 6-4 |
| Fire regime | 2-23, 2-78, 3-14, 3-56, 4-12, 4-24, 4-50, 4-51, 4-82, 4-83, 4-107, 4-109, 4-110, 4-177, 4-192, 4-193, 4-195, 4-197, 4-199, 4-201, 4-203, 4-204, 4-253, 6-4 |
| Fire return interval | 3-14, 4-195, 4-199, 4-203, 6-4 |
| Fire suppression | 1-5, 2-15, 2-19, 2-76, 2-78, 2-79, 2-135, 2-155, 2-158, 2-0, 3-13, 3-42, 3-57, 3-58, 4-9, 4-23, 4-24, 4-26, 4-27, 4-41, 4-46, 4-50, 4-52, 4-64-4-66, 4-82, 4-88, 4-91, 4-94-4-96, 4-98, 4-101, 4-107, 4-109, 4-118, 4-122, 4-123, 4-136, 4-138, 4-143, 4-145, 4-149, 4-153, 4-154, 4-158, 4-177, 4-183, 4-192, 4-196-4-200, 4-203, 4-215, 4-246, 4-247, 4-251, 6-8 |
| Fish and Wildlife | xiv, xv, 1-5, 2-16, 2-29-2-31, 2-34, 2-36, 2-38, 2-97, 2-136, 2-137, 2-159, 2-168, 3-11, 3-17, 3-35, 3-43, 3-59, 3-63, 3-64, 3-73, 4-8, 4-31, 4-32, 4-40, 4-45-4-49, 4-55-4-58, 4-68, 4-79, 4-80, 4-83, 4-85, 4-87, 4-89, 4-102, 4-106, 4-111, 4-114, 4-118, 4-121, 4-124, 4-127, 4-161, 4-169, 4-177, 4-179, 4-181, 4-183-4-185, 4-187, 4-189-4-191, 4-193, 4-195, 4-199, 4-202, 4-205, 4-214, 4-215, 4-219, 4-223, 4-260, 4-262, iii, iv, 5-5, 5-8, 6-1, 6-2, 6-6, 6-13-6-15, 6-18-6-20, 6-23-6-25, 6-27 |
| Flood plain | 3-11, 6-4 |
| FLPMA | xiv, 1-1, 1-2, 2-16, 2-17, 2-24, 2-26, 2-27, 2-29, 2-32, 2-39, 2-48, 2-50, 2-57, 2-59, 2-60, 2-68, 2-73, 2-80, 2-81, 2-90, 2-96, 2-100, 2-109, 2-134, 2-157, 2-158, 3-38, 3-48, 3-55, 3-59, 3-61, 3-63, 3-67, 3-68, 3-71, 4-132, 4-135, 4-137, 4-138, 4-151, 4-158, 4-170, 4-204, 4-205, 4-214, 4-218, 4-243, 4-252, iii, 6-4, 6-5, 6-8 |
| FMP | xiv, 2-76, 2-79, 2-136, 3-58, 4-9, 4-101, iii, 6-4 |
| Fuels | 1-6, 2-3, 2-10, 2-19, 2-20, 2-77-2-79, 2-181, 2-0, 2-181, 2-0, 3-13, 3-57, 3-58, 4-3-4-6, 4-12, 4-14, 4-23, 4-34, 4-35, 4-41, 4-44, 4-45, 4-58, 4-138, 4-141, 4-145, 4-147, 4-149, 4-160, 4-161, 4-193-4-203, 4-246, 4-253, 4-254, 6-7 |
| Functional At Risk (FAR) | 3-11, 4-39, 6-4 |
| GIS | xiv, 2-48, 3-13, 3-59, iii, 6-4, 6-24, 6-25 |
| Grazing Management | ix, xv, S-1, 1-2, 1-9, 2-7, 2-15, 2-51, 2-54, 2-73, 2-75, 2-180, 2-196, 3-48, 3-49, 3-55, 3-71, 4-7, 4-9, 4-14, 4-16, 4-18, 4-19, 4-23-4-25, 4-27-4-29, 4-33, 4-34, 4-36-4-39, 4-55-4-59, 4-63-4-67, 4-72, 4-78, 4-79, 4-82, 4-84, 4-86, 4-88, 4-90, 4-93, 4-95-4-98, 4-103, 4-107, 4-111, 4-114, 4-118, 4-121, 4-136, 4-137, 4-144, 4-149, 4-153-4-158, 4-160, 4-161, 4-163-4-165, 4-170, 4-175, 4-177, |

| | |
|---------------------------------|--|
| | 4-180, 4-181, 4-183, 4-185-4-192, 4-196, 4-198, 4-199, 4-201, 4-202, 4-215-4-217, 4-246, 4-247, 4-249-4-251, 4-253-4-258, 4-260-4-262, i, iv, 5-7, 6-16, 6-21, 6-23 |
| Ground water | 2-4, 2-18, 3-3, 3-6, 3-11, 3-49, 4-8, 4-9, 4-13, 4-20, 4-31, 4-35, 4-69, 4-72 |
| Herd Management Area Plan | 6-4, 6-23 |
| Herd Management Areas (HMAs) | 1-2 |
| HMAs | 1-2, 1-7, 1-8, 2-53-2-55, 2-69-2-71, 2-73, 2-83, 2-178, 2-179, 3-47, 3-48, 4-12, 4-14, 4-22, 4-34, 4-38, 4-55, 4-62, 4-81, 4-90, 4-93, 4-106, 4-121, 4-128-4-131, 4-173, 4-175-4-181, 4-184-4-186, 6-4, 6-25 |
| ICBEMP | xiv, S-4, 1-1, 1-2, 1-10, 1-12, 2-2, 3-29, 3-31, 3-39, iii, 5-1, 6-5 |
| ID Team | 1-3, 1-12, 2-160, 3-49, 3-58, 3-67, 3-72, 3-73, 3-75, 4-9, 4-195, 5-1-5-3 |
| IMP | xv, 1-2, 1-11, 2-37, 2-57, 2-59, 2-67-2-69, 2-91, 2-93, 2-96, 2-110, 2-111, 2-116, 2-117, 2-119, 2-120, 2-122-2-126, 2-128, 2-131, 2-132, 2-157, 2-158, 2-0, 2-195, 3-44, 3-45, 3-55, 3-58, 3-60, 3-67, 3-71, 3-75, 4-2, 4-9, 4-10, 4-22, 4-32, 4-33, 4-43, 4-53, 4-54, 4-61, 4-62, 4-72, 4-73, 4-79, 4-93, 4-102, 4-103, 4-134, 4-142, 4-147, 4-152, 4-158, 4-171-4-173, 4-175, 4-176, 4-187, 4-194, 4-223, 4-233, 4-234, 4-236-4-239, 4-241, 4-242, 4-252, 4-256, 4-258-4-262, iv, 6-5 |
| Instream Flow | 3-3 |
| Interim Management Policy | xv, 1-2, 1-11, 3-58, iv, 6-5, 6-23, 6-24 |
| Intermittent stream | 4-20, 6-5 |
| Known Geothermal Resource Area | 3-45, 6-5 |
| Land Use Authorizations | 1-7, 2-29, 2-85, 3-42, 3-60, 3-62, 4-162, 4-204, 4-214, 6-1, 6-3, 6-5 |
| Lands and Realty | S-1, 2-51, 2-57, 2-80, 2-158, 2-182, 3-43, 3-58, 4-12, 4-14, 4-16, 4-18, 4-19, 4-33, 4-82, 4-84, 4-86, 4-88, 4-90, 4-108, 4-112, 4-115, 4-118, 4-122, 4-135, 4-142, 4-143, 4-148, 4-153-4-157, 4-159-4-161, 4-163-4-167, 4-170, 4-188-4-191, 4-204, 4-205, 4-213, 4-214, 4-245, 4-253-4-258, 5-7 |
| Leasable Minerals | 2-58, 2-60, 2-65, 2-123, 2-125, 2-131, 3-45, 3-46, 4-3-4-5, 4-12, 4-16, 4-18, 4-23, 4-25, 4-27, 4-34, 4-37, 4-38, 4-55, 4-57, 4-58, 4-62, 4-64, 4-66, 4-73, 4-75, 4-76, 4-81, 4-86, 4-88, 4-93, 4-97, 4-106, 4-118, 4-135, 4-142, 4-148, 4-155, 4-164, 4-168, 4-171-4-173, 4-177, 4-181, 4-183, 4-188-4-190, 4-219, 4-229, 4-233, 4-240, 6-5 |
| Locatable Minerals | x, xi, 2-58, 2-59, 2-66, 2-110, 2-116, 3-44, 3-45, 4-3-4-5, 4-9, 4-12, 4-16-4-18, 4-23, 4-25, 4-27, 4-34, 4-37, 4-38, 4-55, 4-57, 4-62, 4-64, 4-66, 4-73, 4-75, 4-76, 4-81, 4-86, 4-88, 4-93, 4-97, 4-103, 4-106, 4-118, 4-135, 4-142, 4-148, 4-153, 4-155, 4-156, 4-167-4-172, 4-177, 4-181, 4-183, 4-188-4-190, 4-219, 4-225, 4-229, 4-230, 4-233, 4-237, 4-238, 4-240, 4-241, ii, 6-5 |
| Management Concern | 6-5 |
| Management Direction | iv, vi, ix, S-4, 1-1, 1-2, 1-10, 1-11, 2-5, 2-6, 2-8, 2-11, 2-14, 2-15, 2-17, 2-19, 2-20, 2-23, 2-24, 2-26, 2-28, 2-30, 2-33, 2-34, 2-38, 2-40, 2-42, 2-43, 2-46-2-48, 2-51, 2-59, 2-67, 2-68, 2-70, 2-73, 2-76, 2-78, 2-79, 2-81, 2-91, 2-96, 2-100, 2-101, 2-110, 2-111, 2-145, 2-157-2-160, 4-42, 4-71, 4-79, 4-84, 4-151, 4-224, 4-225, 4-227, 4-233, i, 6-4, 6-5 |
| Management Framework Plan (MFP) | 6-5 |
| Management Opportunities | 1-1, 2-11, 2-14, 2-18, 4-16, 4-20, 4-75, 5-1, 6-6 |
| Map unit | 6-6, 6-9 |
| Mechanical treatment | 4-14, 4-48, 4-161 |
| Mechanized vehicle | 2-15, 2-16, 2-45, 2-52-2-56, 2-96-2-100, 2-111, 2-116-2-134, 2-158, 2-159, 2-188, 2-0, 2-188, 2-0, 2-188, 2-189, 3-7, 3-36, 3-42, 3-62, 3-63, 4-10, 4-23, 4-24, 4-27-4-30, 4-35-4-37, 4-63-4-67, 4-72, 4-82, 4-84, 4-87, 4-88, 4-91, 4-94-4-99, 4-108, 4-109, 4-112, 4-115, 4-119, 4-122, 4-124-4-126, 4-132, 4-137, 4-138, 4-144, 4-145, 4-150, 4-151, 4-153-4-155, 4-157, 4-158, 4-160-4-167, 4-178, 4-180, 4-183, 4-185, 4-196, 4-198, 4-200, 4-217-4-228, 4-230-4-232, 4-234-4-236, 4-243, 4-252-4-258, 4-260, 6-6 |
| Migration corridor | 6-6 |
| Mineral Estate | x, xii, S-1, 1-7, 2-57, 2-59, 2-60, 2-67, 2-68, 2-81, 3-43, 3-44, 4-167, 4-170, 4-205, ii, 6-6 |
| Mining claims | 2-59, 2-116, 3-44, 3-45, 6-5 |
| Mitigation | 1-7, 2-5, 2-34-2-36, 2-68, 3-25, 3-28, 4-2, 4-3, 4-9, 4-22, 4-32, 4-33, 4-35, 4-39, 4-40, 4-52, 4-54, 4-62, 4-72, 4-79, 4-82, 4-93, 4-99, 4-100, 4-102, 4-103, 4-108, 4-132, 4-135, 4-139, 4-142, 4-143, 4-148, 4-149, 4-158, 4-168-4-172, 4-175, 4-187, 4-193, 4-205, 4-207, 4-214, 4-217, 4-223, 6-6 |
| MOAs | 2-16 |
| Monitoring | ix, S-3, 1-2, 1-3, 1-9, 2-2, 2-4-2-6, 2-8, 2-10-2-12, 2-14-2-16, 2-19, 2-23, 2-27-2-30, 2-32-2-35, 2-38, 2-42, 2-47, 2-48, 2-50, 2-51, 2-54, 2-57, 2-64, 2-69, 2-71-2-73, 2-75, 2-76, 2-79, 2-91, 2-96, 2-100, 2-109, 2-110, 2-134, 2-136-2-138, 2-141, 2-144, 2-146-2-154, 2-159, 2-174, 2-0, 2-195, 3-7, 3-8, 3-10, 3-11, 3-20, 3-23, 3-28, 3-47, 3-48, 3-50, 4-1, 4-7, 4-9, 4-21, 4-22, 4-28-4-31, 4-54, 4-61, |

| | |
|--|--|
| 4-62, 4-66-4-68, 4-72, 4-79, 4-82, 4-90, 4-91, 4-93, 4-97, 4-100, 4-102, 4-103, 4-107, 4-121, 4-123, 4-124, 4-127, 4-136, 4-137, 4-139, 4-140, 4-144, 4-149, 4-160, 4-169, 4-173, 4-175, 4-192-4-194, 4-215, 4-217, 4-233, 4-245, 4-247-4-250, i, 6-1, 6-6, 6-18 | |
| Monitoring and evaluation | 1-3, 2-6, 4-7, 6-6 |
| MOU | xiv, 1-1, 2-29, 2-33, 2-109, 2-190, 3-23, 4-225, iii, 5-2 |
| Multiple Use | S-4, 1-1, 1-3, 1-10, 2-16, 2-32, 2-69, 2-73, 2-100, 2-157, 3-17, 3-38, 3-49, 3-68, 4-186, 6-6, 6-11 |
| National Environmental Policy Act of 1969 (NEPA) | 6-6 |
| Native American Traditional Practices | 2-47, 2-175, 3-37, 4-2, 4-43, 4-145-4-151, 4-161, 4-162, 4-166, 4-169, 4-170, 4-219, 4-223 |
| Naturalness | 2-145, 2-159, 2-176, 2-188, 2-192, 2-0, 2-190, 2-192, 2-194, 2-0, 2-194, 2-0, 2-194, 2-0, 2-194, 2-0, 2-194, 2-195, 3-68, 4-136, 4-143, 4-149, 4-154, 4-220, 4-224-4-226, 4-228-4-231, 4-243, 4-245- 4-259, 6-6, 6-7 |
| NEPA | iv, xiv, S-4, 1-1, 1-2, 1-10, 1-11, 2-1, 2-2, 2-6, 2-10, 2-41, 2-44, 2-48, 2-50, 2-85-2-88, 2-135, 2-156, 3-55, 4-2, 4-9, 4-69, 4-82, 4-92, 4-93, 4-103, 4-108, 4-132, 4-137, 4-168-4-170, 4-204, 4-205, 4-245, iii, 6-3, 6-6, 6-7, 6-15, 6-26 |
| No surface occupancy (NSO) | 2-54 |
| Noxious weed | xii, 1-2, 1-8, 1-11, 2-27-2-29, 2-167, 3-17, 3-18, 4-8, 4-22-4-24, 4-28, 4-29, 4-33, 4-35, 4-55-4-59, 4-61-4-68, 4-72, 4-79, 4-81, 4-83, 4-90, 4-92-4-100, 4-102, 4-106, 4-123, 4-134, 4-147, 4-157, 4-175, 4-190-4-193, 4-246-4-250, 6-6, 6-18, 6-22, 6-23 |
| NSO | xiv, 2-54, 2-55, 2-58, 2-60, 2-63-2-65, 2-67, 2-68, 2-0, 4-3, 4-9, 4-22, 4-32, 4-53, 4-62, 4-72, 4-79, 4-93, 4-103, 4-135, 4-142, 4-148, 4-152, 4-175, 4-187, 4-219, 4-223, iii |
| NWR | xiv, S-2, 2-39, 2-86-2-88, 3-22, 3-28, 3-32, 3-43, 3-60, 3-66, 4-21, iii, 5-2-5-5, 6-6 |
| Objectives (management) | 6-7 |
| ODFW | xiv, 1-5, 1-6, 1-9, 1-11, 2-17-2-19, 2-25, 2-27, 2-29-2-39, 2-118, 2-168-2-170, 2-172, 3-3, 3-17, 3-19, 3-21, 3-22, 3-29-3-33, 3-35, 3-42, 3-58, 3-64, 3-65, 4-32, 4-37, 4-68, 4-78-4-80, 4-85, 4-87, 4-89, 4-101, 4-102, 4-104, 4-106, 4-109, 4-113, 4-114, 4-116, 4-119, 4-127, 4-128, 4-177, 4-234, iii, 5-3, 5-4 |
| OHV | xiv, S-2, 1-6-1-9, 2-15, 2-16, 2-45, 2-52-2-56, 2-96-2-100, 2-111, 2-113, 2-116-2-134, 2-158, 2-159, 2-188, 2-0, 2-188, 2-0, 2-188, 2-0, 2-188, 2-189, 3-7, 3-36, 3-42, 3-62-3-66, 4-10, 4-23, 4-24, 4-26-4-30, 4-35-4-37, 4-63-4-67, 4-72, 4-82, 4-84, 4-87, 4-88, 4-91, 4-94-4-99, 4-108, 4-109, 4-112, 4-115, 4-119, 4-122, 4-124-4-126, 4-132, 4-136-4-138, 4-140, 4-143-4-145, 4-149-4-151, 4-153-4-155, 4-157-4-167, 4-178, 4-180, 4-182, 4-183, 4-185, 4-196, 4-198, 4-200, 4-217-4-228, 4-230-4-232, 4-234-4-236, 4-243, 4-246, 4-247, 4-249-4-258, 4-260, iii, 6-6, 6-7 |
| Oregon Agricultural Information Network (OAIN) | 6-18 |
| Oregon Department of Agriculture (ODA) | 6-18 |
| Oregon Department of Environmental Quality (DEQ) | 1-7 |
| Oregon Department of Fish and Wildlife (ODFW) | 1-5 |
| Oregon Department of Forestry (ODF) | 2-8 |
| Oregon Final Wilderness EIS | 2-157 |
| Oregon Smoke Management Plan | 2-8, 4-2 |
| Oregon Water Resources Department (OWRD) | 3-3 |
| ORV | xv, 2-160, 2-161, 3-63, 3-73-3-75, 4-124, 4-260, 4-261, iii |
| Paleontological Resources | S-1, 2-39-2-42, 2-173, 3-35, 4-2, 4-43, 4-132-4-138, 4-169, 4-170, 4-219, 4-223 |
| Payments in Lieu of Taxes (PILT) | 2-51 |
| PFC | xv, 1-5, 2-11, 2-16-2-18, 2-39, 2-165, 2-172, 3-11, 3-12, 3-72, 4-8, 4-11, 4-14, 4-15, 4-17-4-20, 4-31-4-37, 4-39, 4-40, 4-71, 4-73, 4-75-4-80, 4-87, 4-89, 4-90, 4-104, 4-116, 4-120, 4-128, 4-182, 4-184, 4-188, 4-193, 4-262, iv, 6-7, 6-24 |
| pH value | 6-7 |
| Physiographic Province | 3-1 |
| PILT | xv, 2-51, 3-42, 4-159, 4-160, iv |
| Planning Area | ii, iv, x-xii, xiv, S-1-4, 1-2, 1-7-1-12, 2-2, 2-3, 2-6-2-9, 2-13-2-15, 2-17, 2-19, 2-20, 2-24-2-32, 2-36, 2-40-2-44, 2-46-2-50, 2-52-2-60, 2-63, 2-64, 2-67-2-69, 2-74-2-82, 2-85-2-91, 2-97-2-106, 2-108, 2-110, 2-111, 2-118-2-133, 2-167, 2-168, 2-173, 2-0, 2-174, 2-0, 2-174-2-177, 2-0, 2-177, 2-0, 2-177, 2-0, 2-180-2-182, 2-184, 2-182, 2-183, 2-182, 2-184, 2-186, 2-182, 2-184, 2-182, 2-183, 2-188, 2-189, 3-1-3-4, 3-6-3-23, 3-26, 3-28-3-51, 3-54-3-67, 3-71, 3-76, 3-77, 4-1-4-7, 4-9, 4-12, 4-14, 4-16-4-18, 4-20-4-27, 4-29, 4-31, 4-32, 4-34-4-41, 4-43, 4-44, 4-46-4-48, 4-50, 4-51, 4-53-4-58, 4-61-4-69, 4-72-4-77, 4-79, 4-81, 4-84-4-90, 4-92-4-95, 4-97, 4-98, 4-100-4-102, 4-104, 4-106, 4-111, 4-112, 4-114-4-118, 4-121, 4-122, 4-124, 4-125, 4-132-4-135, 4-137-4-148, 4-150- 4-158, 4-160-4-168, 4-170-4-173, 4-175, 4-177, 4-180, 4-181, 4-183-4-193, 4-195-4-198, 4-200- |

| | |
|-------------------------------------|--|
| | 4-203, 4-205-4-214, 4-217-4-233, 4-241, 4-243, 4-246, 4-247, 4-254-4-256, 4-258, 4-259, ii, iii, 6-4, 6-24 |
| Playa lake | 6-7 |
| Pluvial lake | 3-33, 6-7 |
| Point source pollution | 6-7 |
| Prescribed burning | 2-20, 2-21, 2-165, 3-57, 4-48, 4-59, 4-80, 4-105, 4-136, 4-149, 4-150, 4-195, 6-7, 6-13 |
| PRIA | xv, 2-16, 2-24, 2-26, 2-27, 2-29, 2-73, 3-48, 3-55, iv |
| Primary wilderness values | 6-7, 6-11 |
| Primitive and unconfined recreation | 2-145, 2-158, 2-192, 2-0, 2-192, 2-195, 3-69, 3-72, 4-224, 4-226, 4-228, 4-231, 4-243, 4-246, 4-247, 4-249-4-259, 6-7 |
| Proper functioning condition (PFC) | 1-5, 6-7 |
| Protocol | 2-10, 2-43, 3-3, 3-6, 3-72, 4-28-4-30, 4-237, 6-21 |
| R&PP | xv, 2-81, 2-83, 2-84, 2-183, 3-59, 4-210, iv, 6-5 |
| RAC | xv, 1-4, 3-49, iv, 5-2-5-4 |
| RAMP | 2-103, 3-65 |
| Range Site | 6-3, 6-8 |
| Rangeland | ix, xv, S-3, 1-2, 1-4, 1-5, 1-11, 2-1, 2-3, 2-7, 2-8, 2-15, 2-16, 2-24, 2-26, 2-27, 2-29, 2-32, 2-51-2-57, 2-71-2-76, 2-0, 2-168, 2-169, 2-180, 3-2, 3-17, 3-22, 3-36, 3-48-3-50, 3-55, 3-57, 4-4, 4-6, 4-7, 4-11, 4-13, 4-17, 4-21, 4-23-4-25, 4-27-4-29, 4-34-4-39, 4-53-4-59, 4-61-4-67, 4-80, 4-82, 4-83, 4-89, 4-90, 4-94-4-99, 4-105, 4-107, 4-110, 4-111, 4-120, 4-121, 4-134, 4-141, 4-147, 4-160, 4-164, 4-173, 4-176, 4-179, 4-186, 4-189, 4-192, 4-197, i, iv, 6-2, 6-8, 6-9, 6-17, 6-21-6-23, 6-26, 6-27 |
| Record of Decision (ROD) | 6-8 |
| Recreation | ii, v, vi, viii, x, xi, xiv, xv, S-1-1-2, 1-5, 1-7-1-11, 2-1-2-4, 2-7, 2-8, 2-10, 2-16-2-18, 2-26, 2-38, 2-43, 2-44, 2-51-2-57, 2-60, 2-61, 2-65-2-67, 2-69, 2-74, 2-80, 2-81, 2-83, 2-93-2-97, 2-100-2-110, 2-135, 2-145, 2-155, 2-156, 2-158, 2-159, 2-173, 2-174, 2-177, 2-188-2-192, 2-189-2-191, 2-0, 2-189-2-192, 2-0, 2-189-2-191, 2-189-2-192, 2-195, 3-3, 3-11, 3-35-3-37, 3-42, 3-43, 3-50, 3-59, 3-62-3-66, 3-69, 3-71-3-73, 3-76, 4-7, 4-11, 4-12, 4-14, 4-16, 4-18, 4-20-4-22, 4-24-4-31, 4-35-4-40, 4-63-4-68, 4-72, 4-73, 4-76, 4-82, 4-84, 4-87, 4-89, 4-91, 4-94-4-100, 4-104, 4-109, 4-112, 4-115, 4-116, 4-119, 4-121-4-125, 4-127-4-134, 4-137, 4-139, 4-144, 4-150-4-152, 4-158-4-167, 4-178, 4-180, 4-182, 4-183, 4-185, 4-190, 4-191, 4-194, 4-215, 4-217, 4-219-4-232, 4-234, 4-236, 4-238-4-241, 4-243-4-262, ii-iv, 5-7, 6-3-6-5, 6-7, 6-8, 6-10, 6-12, 6-16, 6-19, 6-21, 6-22, 6-25, 6-26 |
| Recreation site | 2-102, 2-103, 2-190, 3-65, 4-224, 4-225, 4-227, 4-230, 4-257, 4-259, 6-3, 6-8 |
| Rehabilitation | 1-4, 1-5, 1-7, 2-15, 2-16, 2-23, 2-77-2-79, 2-0, 2-181, 2-194, 3-7, 3-39, 3-55, 3-58, 4-9, 4-10, 4-22, 4-23, 4-25-4-30, 4-35, 4-37, 4-44, 4-46, 4-49, 4-50, 4-54, 4-56, 4-62, 4-65, 4-67, 4-68, 4-82-4-84, 4-86, 4-88, 4-90, 4-96, 4-99, 4-101, 4-105, 4-107-4-111, 4-115, 4-116, 4-118, 4-120, 4-121, 4-141, 4-146, 4-152, 4-169, 4-178-4-181, 4-183, 4-185, 4-188, 4-189, 4-193-4-200, 4-202-4-204, 4-215, 4-219, 4-246-4-248, 4-250, 4-253-4-255, 4-257 |
| Research Natural Area (RNA) | 2-110, 6-8 |
| Resource advisor | 3-58, 6-8 |
| Resource Area Profile | 5-1, 6-8 |
| Resource Management Plan (RMP) | ii, 6-5, 6-8 |
| Risk assessment | 6-9 |
| RMIS | xv, iv |
| ROD | iv, ix, xv, S-3, S-4, 1-1, 1-2, 1-12, 2-67, 2-158, 3-17, 3-44, 4-245, i, iv, 6-8 |
| ROWs | 1-7, 2-7, 2-28, 2-29, 2-53, 2-54, 2-80, 2-85, 2-87, 2-88, 2-111, 2-113, 2-116-2-134, 2-185, 2-184, 2-186, 2-185, 2-184, 3-42, 3-60, 3-61, 4-33, 4-54, 4-59, 4-65, 4-66, 4-82, 4-108, 4-121, 4-125, 4-153, 4-161-4-163, 4-165, 4-166, 4-190, 4-205-4-207, 4-209-4-212, 4-214, 4-235, 4-239, 4-245, 4-254, 4-255 |
| RTR | xv, 1-6, 2-13, 2-38, 2-39, 2-172, 3-20, 3-35, 4-127-4-131, iv, 5-4 |
| S&Gs | xv, 2-15, 2-16, 2-24, 2-26, 2-51, 2-53-2-57, 2-73-2-75, 2-166, 3-49, 3-50, 4-1, 4-23, 4-27, 4-54, 4-55, 4-81, 4-87, 4-90, 4-92, 4-105, 4-111, 4-117, 4-121, 4-175, 4-185, 4-186, 4-192, 4-201, 4-249, 4-261, 4-262, iv |
| Scenic river | xv, 3-75, 3-76, iv, 6-9, 6-22 |
| Scoping | ix, 1-3, 1-4, 1-9, i, 5-1, 5-2, 5-5, 6-9 |
| Section 202 lands | 6-9 |
| Sensitive species | 2-3, 3-29, 3-35, 6-2, 6-9, 6-10, 6-18 |

| | |
|---|--|
| SEORMP | xv, 1-1, 1-2, 1-4, 1-9, 2-70, 2-160, 3-31, 3-38, 3-47, 3-73, 3-75, iv, 5-1, 5-2, 6-23 |
| Seral | 2-3, 2-16, 2-19, 2-125, 3-50, 3-55, 4-23, 4-25, 4-31, 4-44, 4-46, 4-59, 4-80, 4-95, 4-104, 4-153, 6-1, 6-3, 6-9, 6-10 |
| Seral stage | 2-19, 4-23, 4-25, 4-31, 4-80, 4-104, 4-153, 6-3, 6-9 |
| SIP | xv, 2-8, iv, 6-10 |
| Social and Economic Values | S-1, 2-50, 2-51, 2-56, 2-177, 3-38, 4-45, 4-48, 4-49, 4-134, 4-141, 4-147, 4-158, 4-159, 4-161, 4-167, 4-170, 4-196, 4-216, 4-226, 4-228, 4-229, 4-231, 4-245, 4-251, 5-4, 5-7 |
| Soils and Biological Soil Crusts | 2-14, 2-164, 3-7, 4-10, 4-13, 4-15, 4-17, 4-18, 4-21-4-30, 4-54, 4-104, 4-110, 4-113, 4-116, 4-120, 4-169, 4-193, 4-197, 4-200, 4-202 |
| Solitude | 2-137, 2-138, 2-141, 2-145, 2-147, 2-150, 2-153, 2-156, 2-158, 2-188, 2-192, 2-0, 2-190, 2-192, 2-194, 2-0, 2-194, 2-0, 2-194, 2-0, 2-194, 2-0, 2-194, 2-195, 3-42, 3-68, 3-69, 3-71, 3-72, 4-161, 4-162, 4-166, 4-167, 4-220, 4-224-4-226, 4-228-4-231, 4-243-4-259, 6-7, 6-10 |
| Southeast Oregon Resource Advisory Council (RAC) | 1-4 |
| Southeastern Oregon Resource Management Plan (SEORMP) | 1-1, 6-23 |
| Special Status species | xii, S-1, S-3, 1-4, 1-6, 2-29, 2-30, 2-32-2-37, 2-53-2-55, 2-60, 2-62, 2-65-2-67, 2-69, 2-73, 2-83, 2-136, 2-137, 2-169, 2-170, 2-169-2-171, 3-20, 3-23, 3-49, 3-50, 3-67, 4-2, 4-8, 4-11, 4-13, 4-14, 4-16, 4-17, 4-19, 4-20, 4-32, 4-33, 4-37, 4-42, 4-45-4-49, 4-53, 4-55-4-59, 4-71, 4-72, 4-78, 4-89, 4-92, 4-93, 4-96, 4-99-4-127, 4-147, 4-159, 4-169, 4-171, 4-175, 4-185, 4-188-4-192, 4-198, 4-201, 4-202, 4-205, 4-207-4-209, 4-211, 4-214, 4-215, 4-219, 4-223, 4-243, 5-7, 6-10 |
| SRP | xv, 2-53, 2-54, 2-56, 2-57, 2-97, 2-156, 2-192, 3-42, 3-66, 4-224-4-226, 4-228, 4-230, 4-231, iv |
| State Implementation Plan (SIP) | 2-8, 6-10 |
| State Listed Species | 6-10 |
| Steens Act | 1-1, 1-2, 2-2, 2-7, 2-8, 2-23, 2-30, 2-33, 2-35, 2-37, 2-38, 2-47, 2-51, 2-52, 2-54-2-59, 2-67, 2-81, 2-83-2-85, 2-87, 2-89-2-93, 2-96, 2-111, 2-117-2-123, 2-126-2-128, 2-132-2-137, 2-156, 2-159, 2-160, 2-184, 3-14, 3-20, 3-35, 3-44, 3-46, 3-50, 3-55, 3-58-3-60, 3-62, 3-63, 3-67-3-69, 3-71, 3-73, 3-74, 4-1, 4-3, 4-9, 4-22, 4-27, 4-32, 4-33, 4-49, 4-53, 4-61, 4-72, 4-73, 4-79, 4-82, 4-86, 4-92, 4-93, 4-102, 4-108, 4-109, 4-111, 4-114, 4-124, 4-127, 4-134, 4-142, 4-147, 4-150, 4-152, 4-155, 4-158, 4-159, 4-161, 4-168, 4-173, 4-175, 4-176, 4-178, 4-181, 4-186, 4-187, 4-192, 4-201, 4-208, 4-210, 4-214, 4-215, 4-217-4-219, 4-222, 4-223, 4-234, 4-244, 4-245, 4-251, 4-252, 4-262, 5-1 |
| Steens Loop Road | 2-92-2-95, 2-98-2-100, 2-102-2-105, 2-108, 2-121, 2-126, 2-176, 2-188, 2-0, 2-190, 2-191, 2-190-2-192, 2-190-2-192, 2-191, 3-42, 3-48, 3-62, 3-65, 3-66, 3-69, 4-26, 4-52, 4-129, 4-156, 4-160, 4-162-4-164, 4-202, 4-216, 4-217, 4-220, 4-221, 4-224-4-231, 4-236, 4-238, 4-239, 4-248, 4-249, 4-258 |
| Steens Mountain Loop Road | 1-2, 2-97, 4-202, 6-22 |
| Steens Mountain Wilderness | ii, vi, vii, x, S-2, 1-1, 1-6, 2-12, 2-30, 2-37, 2-38, 2-42, 2-48, 2-53-2-57, 2-59, 2-61, 2-83, 2-84, 2-86, 2-88, 2-89, 2-92, 2-95-2-99, 2-101, 2-103-2-105, 2-107, 2-117-2-119, 2-121, 2-126-2-130, 2-134-2-137, 2-145, 2-146, 2-149, 2-151, 2-152, 2-154, 2-156, 2-159, 2-188, 2-191, 3-35, 3-43, 3-44, 3-50, 3-55, 3-58-3-60, 3-62, 3-67-3-71, 3-73, 3-75, 3-76, 4-3, 4-9, 4-16, 4-18, 4-19, 4-22, 4-28, 4-32, 4-53, 4-61, 4-69, 4-72, 4-73, 4-79, 4-93-4-95, 4-97-4-99, 4-102, 4-112, 4-124, 4-127, 4-134, 4-142, 4-147, 4-150, 4-152-4-157, 4-161, 4-163, 4-165, 4-168, 4-175, 4-186, 4-187, 4-194, 4-215, 4-216, 4-218, 4-219, 4-223-4-229, 4-231, 4-234-4-236, 4-238-4-241, 4-243-4-251, 4-260, 4-261, ii |
| Subbasin review (SBR) | S-4 |
| Summary of the Analysis of the Management Situation | 5-5, 6-25 |
| Supplemental wilderness values | 6-11 |
| T&E | xv, 2-1, 2-4, 2-13, 2-28, 2-32-2-34, 2-54, 2-82-2-84, 3-45, 3-50, 3-75, 4-42, 4-92, 4-93, 4-103, 4-108, 4-168, 4-169, 4-203, iv |
| The Nature Conservancy (TNC) | 2-35 |
| Threatened Species | 1-11, 3-28, 3-29, 6-11, 6-22 |
| Three Rivers RA | 1-1, 1-2, 2-112, 3-1, 3-44, 3-48, 3-61, 3-68 |
| Three Rivers Resource Area (Three Rivers RA) | 1-1 |
| TMDL | xv, 2-12-2-14, 3-4, 4-19, 4-20, 4-73, iv |
| TNC | xv, 2-35, 2-118, 4-124, iv |
| Total Maximum Daily Loads (TMDL) | 2-12 |
| Transportation and Roads | 2-51, 2-91, 2-97, 2-188, 3-60-3-62, 4-3-4-6, 4-10, 4-24, 4-26, 4-27, 4-29, 4-33, 4-35, 4-63-4-67, 4-82, 4-84, 4-86, 4-88, 4-91, 4-94-4-97, 4-99, 4-108, 4-112, 4-115, 4-119, 4-122, 4-136, 4-144, 4-150, 4-153-4-155, 4-157, 4-158, 4-160, 4-162-4-164, 4-166, 4-170, 4-178, 4-180, 4-181, 4-183, 4-185, 4-200-4-202, 4-214, 4-215, 4-219, 4-226, 4-228, 4-229, 4-231, 4-253-4-258, 5-7 |
| United States Fish and Wildlife Service (USFWS) | 1-1 |

| | |
|--|--|
| United States Geological Survey (USGS) | 1-12 |
| USDA | xv, 1-2, 1-10-1-12, 2-2, 2-76, 3-6, 3-23, 3-29, 3-31, 3-39, iv, 6-13, 6-14, 6-16-6-20, 6-24, 6-25 |
| USFS | xv, 1-12, 2-10, 2-138, 3-6, 3-33, 3-39, 3-41, 3-64, 4-6, 4-167, 4-222, 4-243, iv, 5-1, 6-21, 6-24 |
| USFWS | xv, 1-1, 1-2, 1-12, 2-25, 2-29-2-31, 2-33-2-37, 2-39, 2-86-2-88, 2-118, 3-4, 3-19, 3-28, 3-29, 3-31-3-34, 3-42, 3-58, 3-60, 3-64, 4-68, 4-78-4-80, 4-85, 4-87, 4-89, 4-101, 4-102, 4-106, 4-114, 4-124, 4-128, 4-167, 4-177, 4-232, 4-243, 4-259, iv, 5-3, 5-5, 6-21-6-26 |
| Utilization | S-3, 2-74, 2-75, 2-80, 2-165, 2-180, 4-14, 4-15, 4-17, 4-33, 4-36, 4-37, 4-48, 4-58, 4-59, 4-73, 4-75, 4-76, 4-81, 4-128, 4-129, 4-131, 4-143, 4-149, 4-174, 4-176, 4-188, 4-189, 4-192, 4-196, 4-201, 6-11 |
| Vegetation | vi, ix, xii, S-1, S-3-1-5, 1-11, 2-3, 2-4, 2-10-2-14, 2-16-2-31, 2-34, 2-36, 2-48, 2-69, 2-74, 2-75, 2-77, 2-79, 2-91, 2-132, 2-136-2-139, 2-142, 2-144, 2-159, 2-164-2-166, 2-0, 2-166-2-168, 2-172, 2-177-2-179, 2-0, 2-192, 2-0, 2-194, 3-3, 3-7, 3-10-3-17, 3-20-3-22, 3-29-3-31, 3-33, 3-50, 3-54, 3-56, 3-58, 3-65, 3-66, 3-70, 3-72-3-75, 4-1, 4-3-4-43, 4-45, 4-46, 4-49-4-59, 4-62-4-69, 4-71-4-85, 4-87-4-90, 4-92, 4-94-4-100, 4-102-4-107, 4-110, 4-113, 4-114, 4-116-4-118, 4-120, 4-121, 4-123-4-125, 4-127-4-131, 4-134, 4-141, 4-145-4-147, 4-152-4-155, 4-157, 4-159, 4-164-4-167, 4-169, 4-173-4-177, 4-179-4-191, 4-193, 4-195-4-204, 4-215, 4-223, 4-224, 4-226, 4-228, 4-234, 4-237-4-239, 4-241, 4-245-4-247, 4-250, 4-252-4-255, 4-258, 4-260, 4-262, i, 5-8, 6-2-6-4, 6-7, 6-8, 6-11-6-13, 6-15, 6-16, 6-18, 6-22, 6-25-6-27 |
| Visual Resource Management (VRM) | 1-4, 6-11 |
| VRM | xv, 1-4-1-6, 2-48-2-50, 2-83, 2-111, 2-113, 2-117-2-134, 2-158, 2-159, 2-176, 3-38, 4-9, 4-32, 4-43, 4-52, 4-54, 4-62, 4-72, 4-79, 4-92, 4-102, 4-151-4-158, 4-170, 4-175, 4-188-4-192, 4-194, 4-219, 4-223, 4-239, 4-240, 4-245, 4-252, 4-253, 4-255-4-258, 4-260, iv, 6-11 |
| Water Resources | xv, S-1, 2-10, 2-12, 2-29, 2-30, 2-34, 2-140, 2-163, 2-177, 3-3, 4-2, 4-6-4-12, 4-14, 4-16-4-20, 4-32, 4-39, 4-42, 4-69, 4-71-4-76, 4-78, 4-101, 4-102, 4-125, 4-126, 4-133, 4-134, 4-141, 4-146, 4-159, 4-164-4-167, 4-169, 4-187-4-189, 4-191-4-193, 4-195, 4-197, 4-215, 4-218, 4-223, 4-234, iv, 5-5, 5-7, 5-8, 6-23, 6-26 |
| Wild Horses and Burros | 2-69, 2-178, 3-47, 4-12, 4-14, 4-16, 4-18, 4-19, 4-22, 4-34, 4-36-4-39, 4-55-4-58, 4-62, 4-81, 4-84, 4-86, 4-88, 4-90, 4-106, 4-111, 4-114, 4-118, 4-121, 4-128-4-131, 4-135, 4-143, 4-148, 4-170, 4-173, 4-245, 4-246, 5-7 |
| Wilderness | ii, vi, vii, x, xii, xv, S-1-3, 1-1, 1-5, 1-6, 1-8-1-11, 2-3, 2-12, 2-13, 2-21, 2-30, 2-33, 2-37-2-39, 2-41, 2-42, 2-44, 2-48, 2-49, 2-53-2-57, 2-59, 2-61, 2-78, 2-81, 2-83, 2-84, 2-86, 2-88, 2-89, 2-92-2-99, 2-101, 2-103-2-105, 2-107, 2-108, 2-110, 2-111, 2-117-2-132, 2-134-2-143, 2-145, 2-146, 2-148, 2-149, 2-151, 2-152, 2-154-2-159, 2-165, 2-172, 2-176, 2-188, 2-191, 2-194, 2-0, 2-194, 2-0, 2-194, 2-0, 2-194, 2-195, 3-2, 3-35, 3-38, 3-43, 3-44, 3-50, 3-55, 3-58-3-64, 3-67-3-76, 4-2, 4-3, 4-9, 4-10, 4-13, 4-16, 4-18-4-20, 4-22, 4-28, 4-32, 4-33, 4-37, 4-39-4-41, 4-43, 4-46, 4-53, 4-54, 4-61, 4-62, 4-69, 4-72, 4-73, 4-77-4-79, 4-88, 4-90, 4-93-4-95, 4-97-4-99, 4-102, 4-103, 4-112, 4-124, 4-127-4-131, 4-134, 4-137, 4-142, 4-144, 4-147, 4-150-4-158, 4-161-4-163, 4-165, 4-166, 4-168, 4-170, 4-175, 4-176, 4-186, 4-187, 4-194, 4-196, 4-198, 4-200-4-202, 4-205, 4-211, 4-215, 4-216, 4-218-4-220, 4-223-4-229, 4-231, 4-233-4-236, 4-238-4-262, ii, iv, 5-7, 6-5-6-7, 6-9-6-12, 6-16, 6-17, 6-20-6-25 |
| Wilderness Study Areas (WSAs) | S-1 |
| Wilderness Study Report for Oregon | 2-157 |
| Wildland Fire Management | v, 2-76, 2-181, 3-55, 4-3-4-7, 4-9, 4-12, 4-14, 4-16, 4-18, 4-19, 4-22-4-24, 4-26, 4-27, 4-29, 4-33, 4-34, 4-36-4-39, 4-44, 4-46-4-49, 4-52, 4-63-4-67, 4-79, 4-82, 4-84, 4-86, 4-88, 4-90, 4-94-4-96, 4-98, 4-99, 4-107, 4-111, 4-115, 4-118, 4-121, 4-153-4-157, 4-160, 4-161, 4-163-4-166, 4-170, 4-175, 4-177, 4-180, 4-181, 4-183, 4-185, 4-188-4-192, 4-215, 4-245-4-247, 4-249-4-251, 4-253-4-258, 6-25 |
| Wildland urban interface (WUI) | 2-76 |
| WJMA | xv, 1-1, 1-6, 2-23, 2-49, 2-50, 2-103, 2-166, 2-176, 3-10, 3-14, 4-4, 4-51, 4-52, 4-155-4-157, 4-169, 4-194, iv, 5-7, 6-25 |
| WQRP | xv, 2-11, 2-12, 2-14, 2-17, 2-18, 4-10, 4-13, 4-15, 4-17-4-19, 4-73-4-76, 4-104, iv |
| WSA IMP | xv, 1-11, 2-37, 2-57, 2-59, 2-67-2-69, 2-91, 2-93, 2-96, 2-110, 2-111, 2-116, 2-117, 2-119, 2-120, 2-122-2-126, 2-131, 2-132, 2-157, 2-158, 2-0, 2-195, 3-44, 3-45, 3-55, 3-58, 3-60, 3-67, 3-71, 3-75, 4-2, 4-9, 4-10, 4-22, 4-32, 4-33, 4-43, 4-53, 4-54, 4-61, 4-62, 4-72, 4-73, 4-79, 4-93, 4-102, 4-103, 4-134, 4-142, 4-147, 4-152, 4-158, 4-171-4-173, 4-175, 4-176, 4-187, 4-194, 4-223, 4-233, 4-234, 4-236-4-239, 4-241, 4-242, 4-252, 4-256, 4-258-4-262, iv, 6-5 |
| WSAs | S-1, S-3, 1-4, 1-9-1-11, 2-37, 2-48, 2-50, 2-53-2-57, 2-59-2-61, 2-67-2-69, 2-81-2-84, 2-86-2-88, 2-91, 2-93-2-101, 2-110, 2-116, 2-122, 2-127, 2-128, 2-157, 2-158, 2-176, 2-195, 3-38, 3-44, 3-45, 3-55, |

| | |
|-------------------|--|
| | 3-58-3-61, 3-63, 3-66, 3-68, 3-71, 3-72, 4-2, 4-3, 4-9, 4-16, 4-18, 4-19, 4-22, 4-32, 4-33, 4-43, 4-53, 4-54, 4-61, 4-62, 4-72, 4-73, 4-79, 4-84, 4-93, 4-102, 4-103, 4-112, 4-118, 4-134, 4-137, 4-142, 4-144, 4-147, 4-150-4-153, 4-155-4-157, 4-162, 4-163, 4-168, 4-170, 4-175, 4-176, 4-187, 4-194, 4-205, 4-211, 4-218-4-221, 4-223, 4-226, 4-233, 4-237, 4-243, 4-252-4-260, 4-262, 6-7, 6-11, 6-22, 6-25 |
| WSR | xv, 1-1, 1-2, 1-5, 2-13, 2-39, 2-49, 2-83, 2-84, 2-88, 2-89, 2-105, 2-110, 2-159, 2-160, 2-172, 2-196, 3-3, 3-35, 3-44, 3-73-3-75, 4-20, 4-40, 4-43, 4-69, 4-77, 4-78, 4-124, 4-127-4-131, 4-137, 4-144, 4-145, 4-150, 4-152, 4-154, 4-233, 4-262, iv, 6-25 |
| WSR Act | 2-39, 2-110, 2-172, 3-3, 3-35, 4-40, 4-128-4-131, 4-233 |
| WUI | xv, 2-76-2-79, 2-181, 4-48, 4-192, 4-193, 4-196, 4-198, 4-202, 4-203, iv |

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